CRESTONE PEAK RESOURCES

WELD COUNTY
SEC 22-T1N-R68W
COSSLETT EAST 1B-22H-H168

OWB
PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Reference PROPOSAL 1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 3/1/2022

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,455.45	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,363.79	2,324.51	167.18	118.79	3.455	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,400.00	2,358.17	167.71	118.54	3.411	ES, SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	1,200.00	1,200.00	9.81	1.65	1.203	Level 2, CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	18,455.45	18,427.70	349.16	35.34	1.113	Level 2, SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	1,100.00	1,100.00	19.88	12.45	2.673	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	18,455.45	18,461.43	711.68	392.85	2.232	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	1,000.00	1,000.00	29.96	23.24	4.458	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	18,455.45	18,801.79	1,019.83	694.05	3.130	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	39.76	33.76	6.622	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	18,455.45	18,602.06	1,395.31	1,072.69	4.325	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	800.00	799.00	49.84	44.56	9.433	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	18,455.45	18,942.39	1,665.39	1,338.45	5.094	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	700.00	699.00	59.92	55.36	13.122	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	18,455.45	19,021.79	2,023.86	1,696.78	6.188	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	600.00	599.00	69.72	65.87	18.110	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	18,455.45	19,383.51	2,359.54	2,033.53	7.238	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	500.00	498.00	79.80	76.67	25.501	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	18,455.45	19,430.54	2,682.96	2,355.88	8.203	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	398.00	89.88	87.47	37.257	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	18,455.45	19,518.56	3,008.71	2,681.16	9.185	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	298.00	99.96	98.27	58.956	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	18,455.45	19,889.26	3,349.41	3,023.06	10.263	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	198.00	109.76	108.78	112.161	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	18,455.45	19,796.12	3,719.54	3,391.35	11.334	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	98.00	119.85	119.58	450.269	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	18,455.45	20,184.95	4,061.52	3,733.99	12.401	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	1,300.00	1,300.00	10.36	1.49	1.168	Level 2, CC, ES, SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,300.00	16,236.00	250.79	72.06	1.403	Level 3, ES, SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,308.88	16,236.00	250.59	73.36	1.414	Level 3, CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,256.28	16,659.00	423.79	230.91	2.197	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,659.00	426.32	228.75	2.158	ES, SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,357.78	16,530.00	318.51	163.03	2.049	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,400.00	16,530.00	322.20	161.89	2.010	ES, SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,312.85			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	200.00	179.13	1,313.43	1,312.65	1,696.442	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,455.45	17,546.00	3,370.86	3,038.54	10.144	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	543.28	536.65	1,302.79	1,299.44	388.762	CC, ES

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

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Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 22-T1N-R68W						
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	18,455.45	17,340.00	3,120.17	2,787.91	9.391	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	296.80	285.79	1,296.47	1,294.96	861.543	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	600.00	583.95	1,296.96	1,293.32	356.377	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	18,455.45	17,471.00	3,022.25	2,689.39	9.080	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	88.02	1,288.96	1,288.68	4,590.651	CC
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	382.03	1,289.64	1,287.68	655.279	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	18,455.45	17,481.93	2,665.06	2,333.67	8.042	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	623.23	616.96	1,249.68	1,247.14	490.606	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	700.00	678.19	1,250.09	1,247.00	405.422	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	18,455.45	17,401.67	2,401.31	2,073.00	7.314	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	88.54	1,272.81	1,272.53	4,591.529	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	1,600.00	1,588.47	1,281.90	1,271.06	118.308	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	18,455.45	17,796.00	2,237.94	1,904.49	6.711	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,368.89	1,361.56	1,264.14	1,255.16	140.820	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,400.00	1,385.96	1,264.22	1,255.03	137.601	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	18,455.45	17,487.00	2,150.93	1,818.98	6.480	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	3,090.12	3,104.55	1,236.38	1,210.04	46.941	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	3,100.00	3,111.59	1,236.39	1,209.95	46.758	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	18,455.45	17,555.56	1,794.22	1,470.07	5.535	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	4,231.24	4,242.10	1,101.03	1,059.43	26.468	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	5,000.00	5,022.56	1,107.08	1,056.64	21.949	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	18,400.00	17,583.00	1,469.89	1,141.37	4.474	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	5,167.26	5,186.59	1,005.23	951.99	18.880	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	18,455.45	17,647.15	1,253.54	924.18	3.806	ES, SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	5,109.16	5,134.19	949.56	897.97	18.406	CC
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	17,800.00	17,212.00	1,074.53	765.95	3.482	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	18,000.00	17,364.86	1,082.11	769.97	3.467	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	5,683.14	5,691.43	799.14	737.76	13.019	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	18,455.45	17,827.93	908.29	575.08	2.726	ES, SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	704.02	697.06	204.44	199.80	44.040	CC, ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,500.00	1,473.62	269.73	258.73	24.509	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	233.79			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	88.19	233.93	233.65	837.762	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	7,300.00	7,123.43	2,970.35	2,895.09	39.468	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	89.25	227.39	227.11	813.381	CC, ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	4,300.00	4,170.21	402.68	359.79	9.389	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,674.00	1,673.34	129.90	117.43	10.415	CC
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,700.00	1,698.43	129.99	117.36	10.289	ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,900.00	1,892.30	136.58	122.88	9.968	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	172.59	162.60	230.07	229.36	325.767	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	188.22	230.18	229.28	257.476	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	5,800.00	5,565.33	1,337.11	1,274.89	21.490	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,362.01	1,379.28	43.79	33.11	4.102	CC, ES, SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	722.34	717.04	210.61	205.72	42.995	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	3,800.00	3,685.94	326.11	289.69	8.953	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,400.00	15,353.00	2,783.26	2,605.05	15.617	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,550.00	15,353.00	2,769.87	2,593.63	15.716	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,565.07	15,353.00	2,769.75	2,593.74	15.736	CC
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,400.00	15,243.00	3,113.05	2,934.17	17.403	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,550.00	15,243.00	3,102.04	2,924.89	17.511	ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,558.67	15,243.00	3,102.01	2,924.97	17.522	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,300.00	15,134.00	2,220.70	2,041.06	12.362	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,500.00	15,134.00	2,201.01	2,024.99	12.505	ES

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Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

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SEC 22-T1N-R68W						
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,503.35	15,134.00	2,201.00	2,025.06	12.510	CC
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,350.00	15,352.00	3,697.20	3,518.74	20.717	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,590.41	15,352.00	3,671.97	3,496.32	20.905	CC, ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,450.00	8,064.22	1,763.82	1,692.58	24.759	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,653.47	7,943.36	1,746.16	1,676.32	25.001	CC, ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,550.00	8,019.02	745.95	674.43	10.430	SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,600.00	7,988.77	742.59	671.92	10.509	ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,625.62	7,973.66	742.16	671.99	10.577	CC
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,350.00	7,919.80	1,140.88	1,067.91	15.634	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,550.00	7,855.23	1,115.56	1,045.77	15.984	ES
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,565.52	7,848.66	1,115.44	1,045.91	16.043	CC
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	13,669.85	7,951.26	779.31	667.45	6.967	CC, ES, SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	14,900.00	8,017.28	769.88	633.34	5.638	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	14,948.58	8,016.58	768.35	632.37	5.650	CC, ES

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Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	12,132.07	7,818.31	212.98	125.28	2.428	CC, ES, SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	6,775.40	6,443.38	165.54	98.61	2.473	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	6,800.00	6,465.82	165.85	98.67	2.469	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,299.25	8,179.33	47.31	-34.49	0.578	Level 1, CC, ES, SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,500.00	7,922.46	1,330.76	1,254.85	17.529	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,776.25	7,977.70	1,276.90	1,207.20	18.320	ES
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,813.41	7,977.70	1,276.36	1,207.50	18.535	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,162.48	7,993.93	1,129.14	1,057.34	15.726	CC, ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,400.00	7,994.00	1,153.85	1,079.15	15.447	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,400.00	7,769.99	2,698.86	2,625.94	37.010	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,776.25	7,888.23	2,636.16	2,567.22	38.236	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,808.84	7,888.43	2,635.96	2,567.36	38.426	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,220.80	7,905.71	3,995.83	3,923.67	55.374	CC, ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	12,600.00	7,915.16	4,650.50	4,549.42	46.011	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,250.00	7,703.14	3,162.11	3,088.24	42.810	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,600.00	7,887.04	3,113.44	3,042.41	43.829	ES
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,609.23	7,889.63	3,113.41	3,042.46	43.883	CC
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,200.00	7,672.97	4,550.69	4,476.27	61.149	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,633.27	7,882.31	4,489.93	4,419.13	63.421	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,535.89	7,861.43	4,472.92	4,406.79	67.636	CC, ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	12,900.00	7,880.67	5,596.77	5,495.36	55.191	SF
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	10,846.64	8,120.88	4,439.51	4,354.78	52.397	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	10,900.00	8,121.92	4,439.83	4,354.42	51.984	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	13,300.00	8,144.62	5,072.26	4,951.61	42.043	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	10,269.46	7,966.30	2,463.99	2,390.51	33.530	CC, ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,200.00	7,968.87	2,633.85	2,553.32	32.709	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,000.00	8,049.08	651.35	570.39	8.045	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,054.08	8,050.12	649.10	568.62	8.065	CC, ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,091.17	7,956.04	47.68	-58.76	0.448	Level 1, CC, SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,100.00	7,956.30	48.49	-59.53	0.449	Level 1, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,253.72	7,910.26	1,927.80	1,835.33	20.847	CC
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,300.00	7,909.13	1,928.36	1,835.01	20.658	ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,800.00	7,896.88	2,003.66	1,901.98	19.705	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,471.78	8,033.31	4,429.40	4,318.86	40.073	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,600.00	8,033.10	4,431.25	4,318.03	39.138	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,600.00	8,012.00	4,914.23	4,765.43	33.026	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	8,700.00	7,775.18	3,602.50	3,424.72	20.265	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,264.19	7,780.00	3,556.52	3,383.76	20.587	CC, ES
EXIST VERT HELEN 23-23 - OWB - Design #1	11,483.42	7,811.00	1,115.76	928.68	5.964	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	11,500.00	7,811.00	1,115.89	928.48	5.954	ES
EXIST VERT HELEN 23-23 - OWB - Design #1	11,600.00	7,811.00	1,121.84	932.46	5.924	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	11,475.20	7,832.00	2,406.63	2,219.29	12.846	CC
EXIST VERT HELEN 33-23 - OWB - Design #1	11,500.00	7,832.00	2,406.76	2,219.03	12.820	ES
EXIST VERT HELEN 33-23 - OWB - Design #1	12,000.00	7,832.00	2,463.18	2,267.33	12.577	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	13,095.27	7,823.00	2,692.45	2,482.70	12.837	CC
EXIST VERT HELEN 34-23 - OWB - Design #1	13,200.00	7,823.00	2,694.49	2,482.58	12.715	ES
EXIST VERT HELEN 34-23 - OWB - Design #1	13,700.00	7,823.00	2,759.53	2,538.31	12.474	SF
EXIST VERT HELEN 43-23 - OWB - Design #1	11,615.09	7,815.00	4,022.86	3,834.09	21.311	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	11,700.00	7,815.00	4,023.75	3,833.71	21.173	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,900.00	7,815.00	4,223.07	4,014.19	20.217	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,542.91	7,821.00	3,529.17	3,327.68	17.515	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,600.00	7,821.00	3,529.63	3,327.09	17.427	ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,500.00	7,821.00	3,656.65	3,438.53	16.765	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 26-T1N-R68W						
ABND VERT ALAUX 1 - OWB - Design #1	14,281.33	5,050.00	3,070.44	2,961.73	28.245	CC
ABND VERT ALAUX 1 - OWB - Design #1	14,300.00	5,050.00	3,070.49	2,961.48	28.167	ES
ABND VERT ALAUX 1 - OWB - Design #1	15,800.00	5,050.00	3,425.48	3,286.19	24.593	SF
ABND VERT ALAUX 2 - OWB - Design #1	14,285.95	5,450.00	2,395.40	2,321.07	32.226	CC
ABND VERT ALAUX 2 - OWB - Design #1	14,300.00	5,450.00	2,395.44	2,320.91	32.141	ES
ABND VERT ALAUX 2 - OWB - Design #1	15,900.00	5,450.00	2,888.44	2,764.11	23.232	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,545.98	7,800.00	202.96	79.71	1.647	CC, ES, SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	17,227.52	7,886.00	290.11	11.44	1.041	Level 2, CC, ES, SF
ABND VERT GOLTL 1 - OWB - Design #1	16,898.62	5,042.00	4,767.04	4,572.00	24.442	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,000.00	5,042.00	4,768.11	4,571.14	24.207	ES
ABND VERT GOLTL 1 - OWB - Design #1	18,300.00	5,042.00	4,968.75	4,750.74	22.791	SF
ABND VERT GOLTL 2 - OWB - Design #1	18,217.34	5,020.00	4,780.39	4,566.94	22.396	CC
ABND VERT GOLTL 2 - OWB - Design #1	18,300.00	5,020.00	4,781.11	4,566.06	22.232	ES
ABND VERT GOLTL 2 - OWB - Design #1	18,455.45	5,020.00	4,786.32	4,568.34	21.958	SF
ABND VERT JL SEARS 1 - OWB - Design #1	15,614.16	5,125.00	2,714.43	2,631.05	32.555	CC, ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,300.00	5,125.00	3,195.34	3,067.68	25.031	SF
ABND VERT JL SEARS 2 - OWB - Design #1	15,581.12	5,148.00	2,978.12	2,854.49	24.090	CC
ABND VERT JL SEARS 2 - OWB - Design #1	15,600.00	5,148.00	2,978.18	2,854.22	24.027	ES
ABND VERT JL SEARS 2 - OWB - Design #1	16,900.00	5,148.00	3,257.09	3,106.98	21.698	SF
ABND VERT MANN 1 - OWB - Design #1	16,881.84	5,050.00	3,785.33	3,612.18	21.863	CC
ABND VERT MANN 1 - OWB - Design #1	17,000.00	5,050.00	3,787.17	3,611.81	21.597	ES
ABND VERT MANN 1 - OWB - Design #1	18,000.00	5,050.00	3,947.02	3,754.92	20.546	SF
ABND VERT MANN 2 - OWB - Design #1	18,222.09	5,048.00	3,775.08	3,584.96	19.857	CC
ABND VERT MANN 2 - OWB - Design #1	18,300.00	5,048.00	3,775.88	3,584.28	19.707	ES
ABND VERT MANN 2 - OWB - Design #1	18,455.45	5,048.00	3,782.28	3,587.78	19.446	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,682.41	7,860.50	1,756.74	1,645.63	15.811	CC
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,700.00	7,860.44	1,756.82	1,645.29	15.752	ES
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,100.00	7,859.16	1,805.69	1,686.22	15.114	SF
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	17,486.66	8,029.34	599.71	424.40	3.421	CC, ES, SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	18,455.45	8,280.48	758.47	565.85	3.938	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	18,388.09	8,062.28	190.17	-6.58	0.967	Level 1, CC, ES, SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,845.69	8,002.56	1,257.23	1,092.77	7.645	CC
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,900.00	8,001.92	1,258.40	1,092.36	7.579	ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,000.00	8,000.74	1,266.66	1,098.27	7.522	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,130.81	8,040.29	1,376.74	1,185.61	7.203	CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,200.00	8,041.64	1,378.48	1,184.85	7.119	ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,300.00	8,043.60	1,387.10	1,190.55	7.057	SF
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	18,455.45	8,137.14	697.77	533.88	4.258	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,509.90	8,110.11	1,851.24	1,673.89	10.439	CC
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,600.00	8,108.86	1,853.43	1,673.37	10.294	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,900.00	8,104.82	1,891.89	1,704.94	10.120	SF
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	16,133.84	7,992.92	616.59	462.47	4.001	CC, ES, SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,108.56	7,970.72	595.52	441.64	3.870	CC, ES
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,200.00	7,967.76	602.49	444.62	3.816	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,155.18	7,913.40	1,808.88	1,654.97	11.753	CC
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,200.00	7,912.63	1,809.43	1,654.26	11.661	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,500.00	7,907.50	1,841.44	1,679.67	11.383	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,326.96	7,857.72	91.42	-46.18	0.664	Level 1, CC, ES, SF
EXIST VERT ROBERTS 2 - OWB - Design #1	15,652.76	7,841.00	3,857.17	3,605.88	15.350	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	15,700.00	7,841.00	3,857.45	3,605.15	15.289	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,500.00	7,841.00	3,949.12	3,682.04	14.787	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	14,861.41	7,822.00	3,081.05	2,843.21	12.954	CC
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	14,900.00	7,822.00	3,081.29	2,842.60	12.909	ES

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SEC 26-T1N-R68W						
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,500.00	7,822.00	3,146.53	2,896.30	12.574	SF
SI VERT ALAUX 26-3 - OWB - Design #1	14,132.04	7,847.00	1,258.10	1,031.67	5.556	CC
SI VERT ALAUX 26-3 - OWB - Design #1	14,200.00	7,847.00	1,259.94	1,031.58	5.517	ES
SI VERT ALAUX 26-3 - OWB - Design #1	14,300.00	7,847.00	1,269.26	1,038.46	5.499	SF
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	17,902.68	7,844.00	3,540.14	3,250.67	12.230	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,000.00	7,844.00	3,541.48	3,249.83	12.143	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,455.45	7,844.00	3,583.03	3,282.68	11.929	SF
SI VERT SEARS 22-26 - OWB - Design #1	15,474.91	7,847.00	1,435.07	1,186.66	5.777	CC
SI VERT SEARS 22-26 - OWB - Design #1	15,500.00	7,847.00	1,435.29	1,186.14	5.761	ES
SI VERT SEARS 22-26 - OWB - Design #1	15,700.00	7,847.00	1,452.62	1,198.69	5.721	SF
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,594.47	5,425.00	4,545.34	4,357.55	24.205	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,700.00	5,425.00	4,546.57	4,356.74	23.952	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,000.00	5,425.00	4,757.69	4,546.29	22.506	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,276.87	5,450.00	3,478.33	3,325.29	22.728	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,300.00	5,450.00	3,478.41	3,324.94	22.665	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,500.00	5,450.00	3,687.12	3,512.56	21.123	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,599.23	5,450.00	3,482.46	3,312.37	20.474	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,700.00	5,450.00	3,483.92	3,311.87	20.250	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,700.00	5,450.00	3,652.29	3,462.81	19.275	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,272.12	5,400.00	4,542.09	4,373.71	26.975	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,400.00	5,400.00	4,543.89	4,373.14	26.611	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,900.00	5,400.00	4,825.00	4,629.78	24.716	SF

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	2.37	256.82	10.64	257.48				
100.00	100.00	85.00	85.00	0.13	0.66	2.37	256.82	10.64	257.04	256.25	0.79	323.489	
200.00	200.00	185.00	185.00	0.49	2.26	2.37	256.82	10.64	257.04	254.29	2.75	93.365	
300.00	300.00	285.00	285.00	0.85	4.01	2.37	256.82	10.64	257.04	252.19	4.86	52.923	
400.00	400.00	385.00	385.00	1.21	5.75	2.37	256.82	10.64	257.04	250.08	6.96	36.928	
500.00	500.00	485.00	485.00	1.57	7.50	2.37	256.82	10.64	257.04	247.98	9.06	28.357	
600.00	600.00	585.00	585.00	1.93	9.24	2.37	256.82	10.64	257.04	245.88	11.17	23.015	
700.00	700.00	685.00	685.00	2.29	10.99	2.37	256.82	10.64	257.04	243.77	13.27	19.367	
800.00	800.00	785.00	785.00	2.64	12.73	2.37	256.82	10.64	257.04	241.67	15.38	16.717	
900.00	900.00	885.00	885.00	3.00	14.48	2.37	256.82	10.64	257.04	239.56	17.48	14.705	
1,000.00	1,000.00	985.00	985.00	3.36	16.22	2.37	256.82	10.64	257.04	237.46	19.58	13.126	
1,100.00	1,100.00	1,085.00	1,085.00	3.72	17.97	2.37	256.82	10.64	257.04	235.36	21.69	11.852	
1,200.00	1,200.00	1,185.00	1,185.00	4.08	19.71	2.37	256.82	10.64	257.04	233.25	23.79	10.804	
1,300.00	1,300.00	1,285.00	1,285.00	4.44	21.46	2.37	256.82	10.64	257.04	231.15	25.89	9.926	
1,400.00	1,399.98	1,384.98	1,384.98	4.79	23.20	-40.84	256.82	10.64	255.72	227.72	28.00	9.134	
1,500.00	1,499.84	1,484.84	1,484.84	5.15	24.95	-41.67	256.82	10.64	251.78	221.69	30.10	8.366	
1,600.00	1,599.45	1,584.45	1,584.45	5.51	26.69	-43.11	256.82	10.64	245.34	213.14	32.19	7.621	
1,700.00	1,698.70	1,683.70	1,683.70	5.87	28.42	-45.25	256.82	10.64	236.56	202.28	34.29	6.900	
1,800.00	1,797.47	1,782.47	1,782.47	6.24	30.14	-48.21	256.82	10.64	225.77	189.39	36.38	6.206	
1,900.00	1,895.62	1,880.62	1,880.62	6.63	31.85	-52.18	256.82	10.64	213.41	174.94	38.47	5.547	
2,000.00	1,993.06	1,978.06	1,978.06	7.04	33.55	-57.41	256.82	10.64	200.21	159.63	40.58	4.934	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.00	2,089.64	2,074.64	2,074.64	7.48	35.24	-64.15	256.82	10.64	187.22	144.52	42.69	4.385	
2,200.00	2,185.27	2,170.27	2,170.27	7.94	36.91	-72.61	256.82	10.64	176.00	131.17	44.84	3.925	
2,300.00	2,279.82	2,264.82	2,264.82	8.45	38.56	-82.80	256.82	10.64	168.68	121.68	47.00	3.589	
2,363.79	2,339.51	2,324.51	2,324.51	8.79	39.60	-90.00	256.82	10.64	167.18	118.79	48.39	3.455	CC
2,400.00	2,373.17	2,358.17	2,358.17	8.99	40.19	-94.24	256.82	10.64	167.71	118.54	49.17	3.411	ES, SF
2,500.00	2,465.21	2,450.21	2,450.21	9.58	41.80	-105.99	256.82	10.64	175.20	123.93	51.28	3.417	
2,574.08	2,532.50	2,517.50	2,517.50	10.04	42.97	-114.25	256.82	10.64	186.84	134.06	52.78	3.540	
2,600.00	2,555.89	2,540.89	2,540.89	10.21	43.38	-117.05	256.82	10.64	192.08	138.79	53.29	3.604	
2,700.00	2,646.16	2,631.16	2,631.16	10.88	44.95	-126.61	256.82	10.64	216.52	161.29	55.23	3.920	
2,800.00	2,736.44	2,721.44	2,721.44	11.57	46.53	-134.28	256.82	10.64	246.12	188.98	57.13	4.308	
2,900.00	2,826.71	2,811.71	2,811.71	12.27	48.10	-140.37	256.82	10.64	279.22	220.20	59.03	4.731	
3,000.00	2,916.98	2,901.98	2,901.98	13.00	49.68	-145.22	256.82	10.64	314.74	253.82	60.92	5.166	
3,100.00	3,007.25	3,007.75	2,992.25	13.73	51.53	-149.12	256.82	10.64	351.93	288.84	63.09	5.578	
3,200.00	3,097.52	3,082.52	3,082.52	14.48	52.83	-152.30	256.82	10.64	390.33	325.59	64.73	6.030	
3,300.00	3,187.80	3,172.80	3,172.80	15.23	54.41	-154.92	256.82	10.64	429.60	362.95	66.65	6.445	
3,400.00	3,278.07	3,263.07	3,263.07	15.99	55.98	-157.12	256.82	10.64	469.53	400.95	68.58	6.847	
3,500.00	3,368.34	3,353.34	3,353.34	16.76	57.56	-158.97	256.82	10.64	509.96	439.45	70.51	7.232	
3,600.00	3,458.61	3,443.61	3,443.61	17.54	59.13	-160.56	256.82	10.64	550.79	478.33	72.45	7.602	
3,700.00	3,548.89	3,533.89	3,533.89	18.32	60.71	-161.94	256.82	10.64	591.92	517.53	74.40	7.956	
3,800.00	3,639.16	3,624.16	3,624.16	19.10	62.28	-163.13	256.82	10.64	633.31	556.96	76.35	8.295	
3,900.00	3,729.43	3,714.43	3,714.43	19.89	63.86	-164.19	256.82	10.64	674.90	596.60	78.30	8.619	
4,000.00	3,819.70	3,804.70	3,804.70	20.69	65.44	-165.12	256.82	10.64	716.66	636.40	80.26	8.929	
4,100.00	3,909.98	3,905.03	3,894.98	21.48	67.19	-165.95	256.82	10.64	758.56	676.17	82.40	9.206	
4,200.00	4,000.25	3,985.25	3,985.25	22.28	68.59	-166.69	256.82	10.64	800.58	716.40	84.19	9.510	
4,300.00	4,090.52	4,075.52	4,075.52	23.08	70.16	-167.36	256.82	10.64	842.71	756.55	86.15	9.781	
4,400.00	4,180.79	4,165.79	4,165.79	23.88	71.74	-167.97	256.82	10.64	884.91	796.79	88.12	10.042	
4,500.00	4,271.06	4,256.06	4,256.06	24.69	73.31	-168.52	256.82	10.64	927.20	837.10	90.10	10.291	
4,600.00	4,361.34	4,346.34	4,346.34	25.49	74.89	-169.03	256.82	10.64	969.55	877.48	92.07	10.530	
4,700.00	4,451.61	4,436.61	4,436.61	26.30	76.46	-169.49	256.82	10.64	1,011.95	917.90	94.05	10.760	
4,800.00	4,541.88	4,526.88	4,526.88	27.11	78.04	-169.91	256.82	10.64	1,054.41	958.38	96.02	10.981	
4,900.00	4,632.15	4,617.15	4,617.15	27.92	79.62	-170.31	256.82	10.64	1,096.91	998.90	98.00	11.192	
5,000.00	4,722.43	4,707.43	4,707.43	28.74	81.19	-170.67	256.82	10.64	1,139.44	1,039.46	99.99	11.396	
5,100.00	4,812.70	4,802.30	4,797.70	29.55	82.85	-171.01	256.82	10.64	1,182.02	1,079.97	102.05	11.583	
5,200.00	4,902.97	4,887.97	4,887.97	30.37	84.34	-171.32	256.82	10.64	1,224.62	1,120.67	103.95	11.781	
5,300.00	4,993.24	4,978.24	4,978.24	31.18	85.92	-171.61	256.82	10.64	1,267.26	1,161.32	105.94	11.962	
5,400.00	5,083.51	5,068.51	5,068.51	32.00	87.49	-171.89	256.82	10.64	1,309.91	1,201.99	107.92	12.137	
5,500.00	5,173.79	5,158.79	5,158.79	32.82	89.07	-172.14	256.82	10.64	1,352.60	1,242.69	109.91	12.306	
5,600.00	5,264.06	5,249.06	5,249.06	33.63	90.64	-172.39	256.82	10.64	1,395.30	1,283.40	111.90	12.469	
5,700.00	5,354.33	5,339.33	5,339.33	34.45	92.22	-172.61	256.82	10.64	1,438.02	1,324.13	113.89	12.627	
5,800.00	5,444.60	5,429.60	5,429.60	35.27	93.80	-172.83	256.82	10.64	1,480.76	1,364.88	115.88	12.779	
5,900.00	5,534.88	5,519.88	5,519.88	36.09	95.37	-173.03	256.82	10.64	1,523.51	1,405.65	117.87	12.925	
6,000.00	5,625.15	5,610.15	5,610.15	36.91	96.95	-173.22	256.82	10.64	1,566.28	1,446.42	119.86	13.068	
6,100.00	5,715.42	5,700.42	5,700.42	37.74	98.52	-173.40	256.82	10.64	1,609.07	1,487.21	121.85	13.205	
6,200.00	5,805.69	5,809.31	5,790.69	38.56	100.42	-173.57	256.82	10.64	1,651.86	1,527.69	124.17	13.303	
6,300.00	5,895.96	5,880.96	5,880.96	39.38	101.67	-173.73	256.82	10.64	1,694.67	1,568.83	125.84	13.467	
6,400.00	5,986.24	5,971.24	5,971.24	40.20	103.25	-173.89	256.82	10.64	1,737.49	1,609.65	127.84	13.592	
6,500.00	6,076.51	6,061.51	6,061.51	41.03	104.82	-174.04	256.82	10.64	1,780.32	1,650.48	129.83	13.713	
6,600.00	6,166.78	6,151.78	6,151.78	41.85	106.40	-174.18	256.82	10.64	1,823.15	1,691.32	131.83	13.830	
6,700.00	6,257.05	6,242.05	6,242.05	42.67	107.98	-174.31	256.82	10.64	1,866.00	1,732.17	133.82	13.944	
6,800.00	6,347.33	6,332.33	6,332.33	43.50	109.55	-174.44	256.82	10.64	1,908.85	1,773.03	135.82	14.054	
6,900.00	6,437.60	6,422.60	6,422.60	44.32	111.13	-174.56	256.82	10.64	1,951.71	1,813.89	137.82	14.161	
7,000.00	6,527.87	6,512.87	6,512.87	45.15	112.70	-174.68	256.82	10.64	1,994.58	1,854.76	139.82	14.266	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.00	6,618.14	6,603.14	6,603.14	45.98	114.28	-174.79	256.82	10.64	2,037.45	1,895.64	141.82	14.367	
7,200.00	6,708.41	6,706.59	6,693.41	46.80	116.08	-174.90	256.82	10.64	2,080.33	1,936.29	144.05	14.442	
7,300.00	6,798.69	6,783.69	6,783.69	47.63	117.43	-175.00	256.82	10.64	2,123.22	1,977.40	145.82	14.561	
7,400.00	6,888.96	6,873.96	6,873.96	48.45	119.00	-175.10	256.82	10.64	2,166.11	2,018.29	147.82	14.654	
7,500.00	6,979.23	6,964.23	6,964.23	49.28	120.58	-175.19	256.82	10.64	2,209.01	2,059.19	149.82	14.745	
7,600.00	7,069.50	7,054.50	7,054.50	50.11	122.16	-175.29	256.82	10.64	2,251.91	2,100.09	151.82	14.833	
7,692.09	7,152.63	7,137.63	7,137.63	50.87	123.61	-175.37	256.82	10.64	2,291.42	2,137.76	153.66	14.912	
7,700.00	7,159.79	7,144.79	7,144.79	50.93	123.73	-176.87	256.82	10.64	2,294.78	2,140.96	153.82	14.919	
7,750.00	7,205.70	7,209.30	7,190.70	51.32	124.86	172.45	256.82	10.64	2,314.54	2,159.38	155.16	14.918	
7,800.00	7,252.52	7,237.52	7,237.52	51.66	125.35	159.47	256.82	10.64	2,331.61	2,175.76	155.85	14.961	
7,850.00	7,299.89	7,284.89	7,284.89	51.96	126.18	144.32	256.82	10.64	2,345.88	2,189.01	156.87	14.955	
7,900.00	7,347.44	7,332.44	7,332.44	52.20	127.01	128.37	256.82	10.64	2,357.26	2,199.39	157.88	14.931	
7,950.00	7,394.83	7,379.83	7,379.83	52.39	127.83	113.74	256.82	10.64	2,365.73	2,206.85	158.87	14.891	
8,000.00	7,441.68	7,426.68	7,426.68	52.53	128.65	101.84	256.82	10.64	2,371.25	2,211.41	159.84	14.835	
8,050.00	7,487.65	7,472.65	7,472.65	52.62	129.45	92.90	256.82	10.64	2,373.86	2,213.08	160.79	14.764	
8,100.00	7,532.37	7,517.37	7,517.37	52.67	130.23	86.47	256.82	10.64	2,373.61	2,211.91	161.69	14.680	
8,150.00	7,575.52	7,560.52	7,560.52	52.67	130.99	81.98	256.82	10.64	2,370.57	2,208.01	162.56	14.582	
8,200.00	7,616.76	7,601.76	7,601.76	52.63	131.71	78.98	256.82	10.64	2,364.85	2,201.46	163.39	14.474	
8,250.00	7,655.77	7,640.77	7,640.77	52.55	132.39	77.10	256.82	10.64	2,356.59	2,192.43	164.16	14.355	
8,300.00	7,692.27	7,677.27	7,677.27	52.44	133.02	76.13	256.82	10.64	2,345.94	2,181.05	164.89	14.227	
8,350.00	7,725.97	7,710.97	7,710.97	52.29	133.61	75.87	256.82	10.64	2,333.07	2,167.51	165.57	14.092	
8,400.00	7,756.62	7,741.62	7,741.62	52.12	134.15	76.21	256.82	10.64	2,318.18	2,151.99	166.19	13.949	
8,450.00	7,783.98	7,768.98	7,768.98	51.92	134.63	77.04	256.82	10.64	2,301.46	2,134.71	166.75	13.802	
8,500.00	7,807.85	7,807.15	7,792.85	51.70	135.29	78.30	256.82	10.64	2,283.12	2,115.61	167.51	13.630	
8,550.00	7,828.05	7,813.05	7,813.05	51.45	135.39	79.90	256.82	10.64	2,263.38	2,095.67	167.71	13.496	
8,600.00	7,844.41	7,829.41	7,829.41	51.20	135.68	81.79	256.82	10.64	2,242.46	2,074.36	168.10	13.340	
8,650.00	7,856.82	7,841.82	7,841.82	50.93	135.90	83.92	256.82	10.64	2,220.57	2,052.14	168.43	13.184	
8,700.00	7,865.18	7,850.18	7,850.18	50.65	136.04	86.23	256.82	10.64	2,197.92	2,029.21	168.71	13.028	
8,750.00	7,869.43	7,854.43	7,854.43	50.36	136.12	88.67	256.82	10.64	2,174.70	2,005.78	168.92	12.874	
8,776.25	7,870.00	7,855.00	7,855.00	50.21	136.13	90.00	256.82	10.64	2,162.34	1,993.34	169.00	12.795	
8,800.00	7,870.00	7,855.00	7,855.00	50.08	136.13	90.00	256.82	10.64	2,151.23	1,982.16	169.07	12.724	
8,900.00	7,870.00	7,855.00	7,855.00	49.53	136.13	90.00	256.82	10.64	2,106.73	1,937.33	169.40	12.436	
9,000.00	7,870.00	7,855.00	7,855.00	49.01	136.13	90.00	256.82	10.64	2,066.12	1,896.34	169.78	12.169	
9,100.00	7,870.00	7,855.00	7,855.00	48.52	136.13	90.00	256.82	10.64	2,029.63	1,859.41	170.22	11.924	
9,200.00	7,870.00	7,855.00	7,855.00	48.06	136.13	90.00	256.82	10.64	1,997.48	1,826.78	170.70	11.702	
9,300.00	7,870.00	7,855.00	7,855.00	47.63	136.13	90.00	256.82	10.64	1,969.88	1,798.66	171.23	11.504	
9,400.00	7,870.00	7,855.00	7,855.00	47.22	136.13	90.00	256.82	10.64	1,947.04	1,775.25	171.80	11.333	
9,500.00	7,870.00	7,855.00	7,855.00	46.83	136.13	90.00	256.82	10.64	1,929.12	1,756.72	172.40	11.190	
9,600.00	7,870.00	7,855.00	7,855.00	46.48	136.13	90.00	256.82	10.64	1,916.25	1,743.24	173.02	11.076	
9,700.00	7,870.00	7,855.00	7,855.00	46.14	136.13	90.00	256.82	10.64	1,908.55	1,734.90	173.65	10.991	
9,797.36	7,870.00	7,855.00	7,855.00	45.83	136.13	90.00	256.82	10.64	1,906.06	1,731.79	174.27	10.937	
9,800.00	7,870.00	7,855.00	7,855.00	45.83	136.13	90.00	256.82	10.64	1,906.07	1,731.78	174.29	10.936	
9,900.00	7,870.00	7,855.00	7,855.00	45.54	136.13	90.00	256.82	10.64	1,908.83	1,733.91	174.92	10.913	
10,000.00	7,870.00	7,855.00	7,855.00	45.27	136.13	90.00	256.82	10.64	1,916.81	1,741.27	175.53	10.920	
10,100.00	7,870.00	7,855.00	7,855.00	45.03	136.13	90.00	256.82	10.64	1,929.94	1,753.82	176.12	10.958	
10,200.00	7,870.00	7,855.00	7,855.00	44.82	136.13	90.00	256.82	10.64	1,948.13	1,771.46	176.67	11.027	
10,300.00	7,870.00	7,855.00	7,855.00	44.66	136.13	90.00	256.82	10.64	1,971.23	1,794.04	177.18	11.125	
10,400.00	7,870.00	7,855.00	7,855.00	44.56	136.13	90.00	256.82	10.64	1,999.06	1,821.41	177.65	11.253	
10,500.00	7,870.00	7,855.00	7,855.00	44.58	136.13	90.00	256.82	10.64	2,031.45	1,853.37	178.08	11.407	
10,600.00	7,870.00	7,855.00	7,855.00	44.82	136.13	90.00	256.82	10.64	2,068.17	1,889.71	178.46	11.589	
10,700.00	7,870.00	7,855.00	7,855.00	45.36	136.13	90.00	256.82	10.64	2,108.99	1,930.20	178.79	11.796	
10,800.00	7,870.00	7,855.00	7,855.00	46.15	136.13	90.00	256.82	10.64	2,153.69	1,974.60	179.08	12.026	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,900.00	7,870.00	7,855.00	7,855.00	47.09	136.13	90.00	256.82	10.64	2,202.02	2,022.69	179.33	12.279	
11,000.00	7,870.00	7,855.00	7,855.00	48.13	136.13	90.00	256.82	10.64	2,253.76	2,074.22	179.54	12.553	
11,100.00	7,870.00	7,855.00	7,855.00	49.22	136.13	90.00	256.82	10.64	2,308.67	2,128.96	179.71	12.846	
11,200.00	7,870.00	7,855.00	7,855.00	50.37	136.13	90.00	256.82	10.64	2,366.53	2,186.68	179.86	13.158	
11,300.00	7,870.00	7,855.00	7,855.00	51.55	136.13	90.00	256.82	10.64	2,427.14	2,247.17	179.97	13.486	
11,400.00	7,870.00	7,855.00	7,855.00	52.76	136.13	90.00	256.82	10.64	2,490.29	2,310.23	180.06	13.831	
11,500.00	7,870.00	7,855.00	7,855.00	54.00	136.13	90.00	256.82	10.64	2,555.79	2,375.67	180.12	14.189	
11,600.00	7,870.00	7,855.00	7,855.00	55.27	136.13	90.00	256.82	10.64	2,623.47	2,443.31	180.16	14.562	
11,700.00	7,870.00	7,855.00	7,855.00	56.56	136.13	90.00	256.82	10.64	2,693.16	2,512.97	180.19	14.946	
11,800.00	7,870.00	7,855.00	7,855.00	57.88	136.13	90.00	256.82	10.64	2,764.72	2,584.51	180.21	15.342	
11,900.00	7,870.00	7,855.00	7,855.00	59.21	136.13	90.00	256.82	10.64	2,837.99	2,657.78	180.21	15.749	
12,000.00	7,870.00	7,855.00	7,855.00	60.57	136.13	90.00	256.82	10.64	2,912.85	2,732.66	180.20	16.165	
12,100.00	7,870.00	7,855.00	7,855.00	61.94	136.13	90.00	256.82	10.64	2,989.19	2,809.01	180.18	16.590	
12,200.00	7,870.00	7,855.00	7,855.00	63.33	136.13	90.00	256.82	10.64	3,066.88	2,886.73	180.15	17.024	
12,300.00	7,870.00	7,855.00	7,855.00	64.74	136.13	90.00	256.82	10.64	3,145.84	2,965.71	180.12	17.465	
12,400.00	7,870.00	7,855.00	7,855.00	66.16	136.13	90.00	256.82	10.64	3,225.96	3,045.87	180.09	17.913	
12,500.00	7,870.00	7,855.00	7,855.00	67.59	136.13	90.00	256.82	10.64	3,307.17	3,127.12	180.05	18.368	
12,600.00	7,870.00	7,855.00	7,855.00	69.04	136.13	90.00	256.82	10.64	3,389.38	3,209.37	180.01	18.829	
12,700.00	7,870.00	7,855.00	7,855.00	70.51	136.13	90.00	256.82	10.64	3,472.52	3,292.56	179.96	19.296	
12,800.00	7,870.00	7,855.00	7,855.00	71.98	136.13	90.00	256.82	10.64	3,556.53	3,376.62	179.92	19.767	
12,900.00	7,870.00	7,855.00	7,855.00	73.47	136.13	90.00	256.82	10.64	3,641.36	3,461.48	179.87	20.244	
13,000.00	7,870.00	7,855.00	7,855.00	74.96	136.13	90.00	256.82	10.64	3,726.93	3,547.10	179.83	20.725	
13,100.00	7,870.00	7,855.00	7,855.00	76.47	136.13	90.00	256.82	10.64	3,813.20	3,633.43	179.78	21.211	
13,200.00	7,870.00	7,855.00	7,855.00	77.99	136.13	90.00	256.82	10.64	3,900.14	3,720.40	179.73	21.700	
13,300.00	7,870.00	7,855.00	7,855.00	79.51	136.13	90.00	256.82	10.64	3,987.68	3,807.99	179.69	22.192	
13,400.00	7,870.00	7,855.00	7,855.00	81.05	136.13	90.00	256.82	10.64	4,075.80	3,896.15	179.64	22.688	
13,500.00	7,870.00	7,855.00	7,855.00	82.59	136.13	90.00	256.82	10.64	4,164.45	3,984.85	179.60	23.188	
13,600.00	7,870.00	7,855.00	7,855.00	84.14	136.13	90.00	256.82	10.64	4,253.61	4,074.05	179.56	23.690	
13,700.00	7,870.00	7,855.00	7,855.00	85.70	136.13	90.00	256.82	10.64	4,343.24	4,163.72	179.51	24.194	
13,800.00	7,870.00	7,855.00	7,855.00	87.26	136.13	90.00	256.82	10.64	4,433.31	4,253.83	179.47	24.702	
13,900.00	7,870.00	7,855.00	7,855.00	88.83	136.13	90.00	256.82	10.64	4,523.80	4,344.36	179.44	25.211	
14,000.00	7,870.00	7,855.00	7,855.00	90.41	136.13	90.00	256.82	10.64	4,614.68	4,435.28	179.40	25.723	
14,100.00	7,870.00	7,855.00	7,855.00	92.00	136.13	90.00	256.82	10.64	4,705.93	4,526.57	179.36	26.237	
14,200.00	7,870.00	7,855.00	7,855.00	93.59	136.13	90.00	256.82	10.64	4,797.53	4,618.20	179.33	26.753	
14,300.00	7,870.00	7,855.00	7,855.00	95.18	136.13	90.00	256.82	10.64	4,889.46	4,710.17	179.30	27.270	
14,400.00	7,870.00	7,855.00	7,855.00	96.79	136.13	90.00	256.82	10.64	4,981.71	4,802.44	179.27	27.789	
14,500.00	7,870.00	7,855.00	7,855.00	98.39	136.13	90.00	256.82	10.64	5,074.24	4,895.00	179.24	28.310	
14,600.00	7,870.00	7,855.00	7,855.00	100.00	136.13	90.00	256.82	10.64	5,167.05	4,987.84	179.21	28.832	
14,700.00	7,870.00	7,855.00	7,855.00	101.62	136.13	90.00	256.82	10.64	5,260.13	5,080.94	179.19	29.355	
14,800.00	7,870.00	7,855.00	7,855.00	103.24	136.13	90.00	256.82	10.64	5,353.46	5,174.29	179.17	29.880	
14,900.00	7,870.00	7,855.00	7,855.00	104.87	136.13	90.00	256.82	10.64	5,447.02	5,267.88	179.15	30.406	
15,000.00	7,870.00	7,855.00	7,855.00	106.50	136.13	90.00	256.82	10.64	5,540.81	5,361.68	179.13	30.933	
15,100.00	7,870.00	7,855.00	7,855.00	108.13	136.13	90.00	256.82	10.64	5,634.81	5,455.70	179.11	31.460	
15,200.00	7,870.00	7,855.00	7,855.00	109.77	136.13	90.00	256.82	10.64	5,729.02	5,549.92	179.09	31.989	
15,300.00	7,870.00	7,855.00	7,855.00	111.41	136.13	90.00	256.82	10.64	5,823.41	5,644.34	179.08	32.519	
15,400.00	7,870.00	7,855.00	7,855.00	113.05	136.13	90.00	256.82	10.64	5,918.00	5,738.93	179.07	33.049	
15,500.00	7,870.00	7,855.00	7,855.00	114.70	136.13	90.00	256.82	10.64	6,012.75	5,833.70	179.05	33.581	
15,600.00	7,870.00	7,855.00	7,855.00	116.35	136.13	90.00	256.82	10.64	6,107.68	5,928.63	179.05	34.112	
15,700.00	7,870.00	7,855.00	7,855.00	118.00	136.13	90.00	256.82	10.64	6,202.76	6,023.73	179.04	34.645	
15,800.00	7,870.00	7,855.00	7,855.00	119.66	136.13	90.00	256.82	10.64	6,298.00	6,118.97	179.03	35.178	
15,900.00	7,870.00	7,855.00	7,855.00	121.32	136.13	90.00	256.82	10.64	6,393.38	6,214.35	179.03	35.712	
16,000.00	7,870.00	7,855.00	7,855.00	122.98	136.13	90.00	256.82	10.64	6,488.90	6,309.88	179.02	36.246	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,100.00	7,870.00	7,855.00	7,855.00	124.65	136.13	90.00	256.82	10.64	6,584.56	6,405.53	179.02	36.780	
16,200.00	7,870.00	7,855.00	7,855.00	126.32	136.13	90.00	256.82	10.64	6,680.34	6,501.31	179.02	37.315	
16,300.00	7,870.00	7,855.00	7,855.00	127.99	136.13	90.00	256.82	10.64	6,776.24	6,597.22	179.02	37.851	
16,400.00	7,870.00	7,855.00	7,855.00	129.66	136.13	90.00	256.82	10.64	6,872.26	6,693.23	179.03	38.387	
16,500.00	7,870.00	7,855.00	7,855.00	131.33	136.13	90.00	256.82	10.64	6,968.39	6,789.36	179.03	38.922	
16,600.00	7,870.00	7,855.00	7,855.00	133.01	136.13	90.00	256.82	10.64	7,064.63	6,885.59	179.04	39.459	
16,700.00	7,870.00	7,855.00	7,855.00	134.69	136.13	90.00	256.82	10.64	7,160.97	6,981.93	179.05	39.995	
16,800.00	7,870.00	7,855.00	7,855.00	136.37	136.13	90.00	256.82	10.64	7,257.42	7,078.36	179.05	40.532	
16,900.00	7,870.00	7,855.00	7,855.00	138.06	136.13	90.00	256.82	10.64	7,353.95	7,174.89	179.06	41.069	
17,000.00	7,870.00	7,855.00	7,855.00	139.74	136.13	90.00	256.82	10.64	7,450.58	7,271.50	179.08	41.606	
17,100.00	7,870.00	7,855.00	7,855.00	141.43	136.13	90.00	256.82	10.64	7,547.30	7,368.21	179.09	42.143	
17,200.00	7,870.00	7,855.00	7,855.00	143.12	136.13	90.00	256.82	10.64	7,644.10	7,464.99	179.10	42.680	
17,300.00	7,870.00	7,855.00	7,855.00	144.81	136.13	90.00	256.82	10.64	7,740.98	7,561.86	179.12	43.217	
17,400.00	7,870.00	7,855.00	7,855.00	146.50	136.13	90.00	256.82	10.64	7,837.94	7,658.80	179.13	43.754	
17,500.00	7,870.00	7,855.00	7,855.00	148.19	136.13	90.00	256.82	10.64	7,934.97	7,755.82	179.15	44.292	
17,600.00	7,870.00	7,855.00	7,855.00	149.89	136.13	90.00	256.82	10.64	8,032.08	7,852.91	179.17	44.829	
17,700.00	7,870.00	7,855.00	7,855.00	151.59	136.13	90.00	256.82	10.64	8,129.26	7,950.07	179.19	45.366	
17,800.00	7,870.00	7,855.00	7,855.00	153.29	136.13	90.00	256.82	10.64	8,226.50	8,047.29	179.21	45.904	
17,900.00	7,870.00	7,855.00	7,855.00	154.99	136.13	90.00	256.82	10.64	8,323.81	8,144.58	179.24	46.441	
18,000.00	7,870.00	7,855.00	7,855.00	156.69	136.13	90.00	256.82	10.64	8,421.19	8,241.93	179.26	46.978	
18,100.00	7,870.00	7,855.00	7,855.00	158.39	136.13	90.00	256.82	10.64	8,518.62	8,339.34	179.28	47.515	
18,200.00	7,870.00	7,855.00	7,855.00	160.09	136.13	90.00	256.82	10.64	8,616.12	8,436.81	179.31	48.052	
18,300.00	7,870.00	7,855.00	7,855.00	161.80	136.13	90.00	256.82	10.64	8,713.67	8,534.33	179.34	48.588	
18,400.00	7,870.00	7,855.00	7,855.00	163.51	136.13	90.00	256.82	10.64	8,811.27	8,631.91	179.36	49.125	
18,455.45	7,870.00	7,855.00	7,855.00	164.45	136.13	90.00	256.82	10.64	8,865.42	8,686.04	179.38	49.422	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	92.13	-0.36	9.80	9.81				
100.00	100.00	100.00	100.00	0.13	0.13	92.13	-0.36	9.80	9.81	9.54	0.27	36.477	
200.00	200.00	200.00	200.00	0.49	0.49	92.13	-0.36	9.80	9.81	8.82	0.99	9.948	
300.00	300.00	300.00	300.00	0.85	0.85	92.13	-0.36	9.80	9.81	8.10	1.70	5.759	
400.00	400.00	400.00	400.00	1.21	1.21	92.13	-0.36	9.80	9.81	7.39	2.42	4.053	
500.00	500.00	500.00	500.00	1.57	1.57	92.13	-0.36	9.80	9.81	6.67	3.14	3.127	
600.00	600.00	600.00	600.00	1.93	1.93	92.13	-0.36	9.80	9.81	5.95	3.85	2.545	
700.00	700.00	700.00	700.00	2.29	2.29	92.13	-0.36	9.80	9.81	5.24	4.57	2.146	
800.00	800.00	800.00	800.00	2.64	2.64	92.13	-0.36	9.80	9.81	4.52	5.29	1.855	
900.00	900.00	900.00	900.00	3.00	3.00	92.13	-0.36	9.80	9.81	3.80	6.00	1.633	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	92.13	-0.36	9.80	9.81	3.09	6.72	1.459	Level 3
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	92.13	-0.36	9.80	9.81	2.37	7.44	1.318	Level 3
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	92.13	-0.36	9.80	9.81	1.65	8.16	1.203	Level 2, CC, ES
1,300.00	1,300.00	1,299.72	1,299.70	4.44	4.43	85.78	0.82	11.07	11.11	2.24	8.87	1.253	Level 3
1,400.00	1,399.98	1,399.30	1,399.14	4.79	4.79	34.35	4.35	14.88	14.06	4.49	9.56	1.470	Level 3
1,500.00	1,499.84	1,498.75	1,498.21	5.15	5.14	29.65	10.23	21.20	17.30	7.06	10.25	1.689	
1,600.00	1,599.45	1,598.09	1,596.81	5.51	5.50	27.10	18.43	30.04	20.72	9.80	10.92	1.897	
1,700.00	1,698.70	1,697.31	1,694.81	5.87	5.88	25.84	28.93	41.35	24.24	12.65	11.59	2.092	
1,800.00	1,797.47	1,796.40	1,792.10	6.24	6.27	25.39	41.73	55.13	27.84	15.59	12.25	2.273	
1,900.00	1,895.62	1,895.38	1,888.57	6.63	6.67	25.47	56.78	71.34	31.51	18.60	12.91	2.441	
2,000.00	1,993.06	1,994.24	1,984.10	7.04	7.11	25.91	74.07	89.96	35.25	21.68	13.57	2.597	
2,100.00	2,089.64	2,092.98	2,078.59	7.48	7.57	26.62	93.57	110.96	39.04	24.80	14.24	2.742	
2,200.00	2,185.27	2,191.61	2,171.92	7.94	8.08	27.50	115.25	134.31	42.91	27.98	14.93	2.874	
2,300.00	2,279.82	2,290.12	2,264.00	8.45	8.62	28.52	139.07	159.96	46.85	31.21	15.64	2.995	
2,400.00	2,373.17	2,388.51	2,354.71	8.99	9.20	29.63	165.00	187.89	50.86	34.47	16.39	3.104	
2,500.00	2,465.21	2,486.80	2,443.96	9.58	9.84	30.81	193.00	218.04	54.95	37.77	17.18	3.199	
2,574.08	2,532.50	2,559.54	2,509.08	10.04	10.34	31.72	215.06	241.79	58.04	40.24	17.80	3.261	
2,600.00	2,555.89	2,585.05	2,531.72	10.21	10.52	32.00	223.06	250.41	59.22	41.20	18.03	3.285	
2,700.00	2,646.16	2,684.92	2,620.22	10.88	11.26	32.85	254.56	284.33	64.08	45.03	19.05	3.364	
2,800.00	2,736.44	2,784.80	2,708.72	11.57	12.01	33.58	286.06	318.25	68.94	48.84	20.10	3.430	
2,900.00	2,826.71	2,884.68	2,797.22	12.27	12.79	34.21	317.56	352.17	73.82	52.63	21.19	3.484	
3,000.00	2,916.98	2,984.56	2,885.72	13.00	13.58	34.77	349.06	386.10	78.71	56.41	22.30	3.530	
3,100.00	3,007.25	3,084.44	2,974.23	13.73	14.39	35.26	380.56	420.02	83.60	60.17	23.43	3.568	
3,200.00	3,097.52	3,184.31	3,062.73	14.48	15.21	35.70	412.06	453.94	88.50	63.92	24.58	3.600	
3,300.00	3,187.80	3,284.19	3,151.23	15.23	16.03	36.09	443.56	487.86	93.40	67.65	25.75	3.627	
3,400.00	3,278.07	3,384.07	3,239.73	15.99	16.87	36.44	475.06	521.79	98.30	71.37	26.93	3.650	
3,500.00	3,368.34	3,483.95	3,328.24	16.76	17.71	36.76	506.56	555.71	103.21	75.08	28.13	3.669	
3,600.00	3,458.61	3,583.83	3,416.74	17.54	18.55	37.05	538.06	589.63	108.12	78.79	29.34	3.686	
3,700.00	3,548.89	3,683.70	3,505.24	18.32	19.41	37.31	569.56	623.56	113.04	82.48	30.55	3.700	
3,800.00	3,639.16	3,783.58	3,593.74	19.10	20.26	37.56	601.05	657.48	117.95	86.17	31.78	3.711	
3,900.00	3,729.43	3,883.46	3,682.24	19.89	21.12	37.78	632.55	691.40	122.87	89.85	33.02	3.721	
4,000.00	3,819.70	3,983.34	3,770.75	20.69	21.99	37.99	664.05	725.32	127.79	93.53	34.26	3.730	
4,100.00	3,909.98	4,083.21	3,859.25	21.48	22.85	38.18	695.55	759.25	132.71	97.20	35.51	3.737	
4,200.00	4,000.25	4,183.09	3,947.75	22.28	23.72	38.35	727.05	793.17	137.64	100.87	36.77	3.743	
4,300.00	4,090.52	4,282.97	4,036.25	23.08	24.59	38.52	758.55	827.09	142.56	104.53	38.03	3.749	
4,400.00	4,180.79	4,382.85	4,124.75	23.88	25.47	38.67	790.05	861.01	147.49	108.19	39.30	3.753	
4,500.00	4,271.06	4,482.73	4,213.26	24.69	26.34	38.81	821.55	894.94	152.41	111.84	40.57	3.757	
4,600.00	4,361.34	4,582.60	4,301.76	25.49	27.22	38.95	853.05	928.86	157.34	115.50	41.85	3.760	
4,700.00	4,451.61	4,682.48	4,390.26	26.30	28.10	39.08	884.55	962.78	162.27	119.14	43.13	3.763	
4,800.00	4,541.88	4,782.36	4,478.76	27.11	28.98	39.20	916.05	996.70	167.20	122.79	44.41	3.765	
4,900.00	4,632.15	4,882.24	4,567.26	27.92	29.86	39.31	947.55	1,030.63	172.13	126.43	45.70	3.767	
5,000.00	4,722.43	4,982.12	4,655.77	28.74	30.74	39.41	979.05	1,064.55	177.06	130.07	46.98	3.768	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,081.99	4,744.27	29.55	31.63	39.51	1,010.55	1,098.47	181.99	133.71	48.28	3.770	
5,200.00	4,902.97	5,181.87	4,832.77	30.37	32.51	39.61	1,042.05	1,132.39	186.92	137.35	49.57	3.771	
5,300.00	4,993.24	5,281.75	4,921.27	31.18	33.40	39.70	1,073.55	1,166.32	191.85	140.98	50.87	3.772	
5,400.00	5,083.51	5,381.63	5,009.77	32.00	34.28	39.78	1,105.05	1,200.24	196.78	144.62	52.17	3.772	
5,500.00	5,173.79	5,481.50	5,098.28	32.82	35.17	39.87	1,136.55	1,234.16	201.72	148.25	53.47	3.773	
5,600.00	5,264.06	5,581.38	5,186.78	33.63	36.06	39.94	1,168.05	1,268.09	206.65	151.88	54.77	3.773	
5,700.00	5,354.33	5,681.26	5,275.28	34.45	36.95	40.02	1,199.55	1,302.01	211.58	155.51	56.07	3.773	
5,800.00	5,444.60	5,781.14	5,363.78	35.27	37.84	40.09	1,231.05	1,335.93	216.52	159.14	57.38	3.773	
5,900.00	5,534.88	5,881.02	5,452.28	36.09	38.73	40.16	1,262.55	1,369.85	221.45	162.76	58.69	3.773	
6,000.00	5,625.15	5,980.89	5,540.79	36.91	39.62	40.22	1,294.05	1,403.78	226.38	166.39	60.00	3.773	
6,100.00	5,715.42	6,080.77	5,629.29	37.74	40.51	40.28	1,325.55	1,437.70	231.32	170.01	61.31	3.773	
6,200.00	5,805.69	6,180.65	5,717.79	38.56	41.40	40.34	1,357.05	1,471.62	236.25	173.63	62.62	3.773	
6,300.00	5,895.96	6,280.53	5,806.29	39.38	42.30	40.40	1,388.55	1,505.54	241.19	177.26	63.93	3.773	
6,400.00	5,986.24	6,380.41	5,894.79	40.20	43.19	40.45	1,420.05	1,539.47	246.12	180.88	65.25	3.772	
6,500.00	6,076.51	6,480.28	5,983.30	41.03	44.08	40.50	1,451.55	1,573.39	251.06	184.50	66.56	3.772	
6,600.00	6,166.78	6,580.16	6,071.80	41.85	44.98	40.55	1,483.05	1,607.31	256.00	188.12	67.88	3.771	
6,700.00	6,257.05	6,680.04	6,160.30	42.67	45.87	40.60	1,514.55	1,641.23	260.93	191.74	69.19	3.771	
6,800.00	6,347.33	6,779.92	6,248.80	43.50	46.76	40.65	1,546.05	1,675.16	265.87	195.36	70.51	3.771	
6,900.00	6,437.60	6,879.79	6,337.30	44.32	47.66	40.69	1,577.55	1,709.08	270.80	198.97	71.83	3.770	
7,000.00	6,527.87	6,979.67	6,425.81	45.15	48.55	40.74	1,609.05	1,743.00	275.74	202.59	73.15	3.770	
7,100.00	6,618.14	7,079.55	6,514.31	45.98	49.45	40.78	1,640.55	1,776.92	280.68	206.21	74.47	3.769	
7,200.00	6,708.41	7,179.43	6,602.81	46.80	50.34	40.82	1,672.05	1,810.85	285.61	209.82	75.79	3.768	
7,300.00	6,798.69	7,279.31	6,691.31	47.63	51.24	40.86	1,703.55	1,844.77	290.55	213.44	77.11	3.768	
7,400.00	6,888.96	7,379.18	6,779.81	48.45	52.14	40.90	1,735.05	1,878.69	295.49	217.05	78.43	3.767	
7,500.00	6,979.23	7,479.06	6,868.32	49.28	53.03	40.93	1,766.55	1,912.61	300.42	220.67	79.76	3.767	
7,600.00	7,069.50	7,578.94	6,956.82	50.11	53.93	40.97	1,798.05	1,946.54	305.36	224.28	81.08	3.766	
7,692.09	7,152.63	7,671.25	7,038.67	50.87	54.75	41.04	1,826.97	1,977.91	309.90	227.57	82.33	3.764	
7,700.00	7,159.79	7,679.32	7,045.90	50.93	54.82	39.90	1,829.27	1,980.68	310.28	227.83	82.46	3.763	
7,750.00	7,205.70	7,730.29	7,092.16	51.32	55.24	31.36	1,841.19	1,998.40	312.74	229.49	83.25	3.757	
7,800.00	7,252.52	7,781.13	7,139.11	51.66	55.61	20.14	1,848.65	2,016.36	315.26	231.30	83.96	3.755	
7,850.00	7,299.89	7,831.83	7,186.37	51.96	55.94	6.44	1,851.62	2,034.43	317.81	233.24	84.57	3.758	
7,900.00	7,347.44	7,882.40	7,233.57	52.20	56.21	-8.37	1,850.13	2,052.46	320.37	235.30	85.07	3.766	
7,950.00	7,394.83	7,932.83	7,280.35	52.39	56.43	-22.17	1,844.20	2,070.31	322.94	237.48	85.46	3.779	
8,000.00	7,441.68	7,983.11	7,326.33	52.53	56.59	-33.50	1,833.94	2,087.84	325.48	239.73	85.75	3.796	
8,050.00	7,487.65	8,033.26	7,371.18	52.62	56.71	-42.15	1,819.44	2,104.93	327.98	242.06	85.92	3.817	
8,100.00	7,532.37	8,083.27	7,414.56	52.67	56.77	-48.56	1,800.87	2,121.44	330.42	244.43	86.00	3.842	
8,150.00	7,575.52	8,133.15	7,456.15	52.67	56.80	-53.27	1,778.38	2,137.26	332.79	246.82	85.97	3.871	
8,200.00	7,616.76	8,182.89	7,495.66	52.63	56.78	-56.77	1,752.18	2,152.27	335.05	249.21	85.85	3.903	
8,250.00	7,655.77	8,232.51	7,532.82	52.55	56.72	-59.38	1,722.50	2,166.36	337.20	251.57	85.64	3.938	
8,300.00	7,692.27	8,282.00	7,567.36	52.44	56.63	-61.34	1,689.58	2,179.45	339.22	253.88	85.34	3.975	
8,350.00	7,725.97	8,331.37	7,599.04	52.29	56.50	-62.83	1,653.69	2,191.43	341.10	256.11	84.98	4.014	
8,400.00	7,756.62	8,380.62	7,627.67	52.12	56.35	-63.95	1,615.11	2,202.24	342.81	258.24	84.56	4.054	
8,450.00	7,783.98	8,429.77	7,653.04	51.92	56.17	-64.79	1,574.14	2,211.79	344.34	260.24	84.10	4.095	
8,500.00	7,807.85	8,478.82	7,675.01	51.70	55.97	-65.41	1,531.08	2,220.04	345.68	262.09	83.60	4.135	
8,550.00	7,828.05	8,527.77	7,693.42	51.45	55.75	-65.86	1,486.27	2,226.92	346.83	263.75	83.07	4.175	
8,600.00	7,844.41	8,576.63	7,708.17	51.20	55.51	-66.16	1,440.02	2,232.40	347.76	265.22	82.54	4.213	
8,650.00	7,856.82	8,625.42	7,719.18	50.93	55.26	-66.34	1,392.68	2,236.44	348.48	266.47	82.01	4.249	
8,700.00	7,865.18	8,674.13	7,726.38	50.65	55.01	-66.42	1,344.59	2,239.03	348.97	267.48	81.50	4.282	
8,750.00	7,869.43	8,722.77	7,729.73	50.36	54.75	-66.41	1,296.09	2,240.15	349.24	268.24	81.00	4.311	
8,776.25	7,870.00	8,748.51	7,730.00	50.21	54.61	-66.37	1,270.36	2,240.16	349.29	268.51	80.77	4.324	
8,800.00	7,870.00	8,772.25	7,730.00	50.08	54.48	-66.37	1,246.61	2,240.08	349.29	268.66	80.63	4.332	
8,900.00	7,870.00	8,872.25	7,730.00	49.53	53.96	-66.37	1,146.61	2,239.74	349.28	269.20	80.08	4.361	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,972.25	7,730.00	49.01	53.47	-66.37	1,046.61	2,239.40	349.28	269.61	79.67	4.384	
9,100.00	7,870.00	9,072.25	7,730.00	48.52	53.00	-66.37	946.61	2,239.06	349.28	269.89	79.39	4.399	
9,200.00	7,870.00	9,172.25	7,730.00	48.06	52.56	-66.37	846.62	2,238.71	349.28	270.03	79.25	4.407	
9,300.00	7,870.00	9,272.25	7,730.00	47.63	52.14	-66.37	746.62	2,238.37	349.28	270.03	79.25	4.407	
9,400.00	7,870.00	9,372.25	7,730.00	47.22	51.75	-66.37	646.62	2,238.03	349.28	269.89	79.39	4.400	
9,500.00	7,870.00	9,472.25	7,730.00	46.83	51.38	-66.37	546.62	2,237.69	349.28	269.62	79.66	4.385	
9,600.00	7,870.00	9,572.25	7,730.00	46.48	51.04	-66.37	446.62	2,237.35	349.28	269.21	80.06	4.363	
9,700.00	7,870.00	9,672.25	7,730.00	46.14	50.72	-66.37	346.62	2,237.01	349.27	268.67	80.60	4.333	
9,800.00	7,870.00	9,772.25	7,730.00	45.83	50.43	-66.37	246.62	2,236.67	349.27	268.00	81.27	4.298	
9,900.00	7,870.00	9,872.25	7,730.00	45.54	50.16	-66.37	146.62	2,236.33	349.27	267.20	82.07	4.256	
10,000.00	7,870.00	9,972.25	7,730.00	45.27	49.92	-66.37	46.62	2,235.99	349.27	266.28	82.99	4.209	
10,100.00	7,870.00	10,072.25	7,730.00	45.03	49.70	-66.37	-53.38	2,235.65	349.27	265.24	84.03	4.157	
10,200.00	7,870.00	10,172.25	7,730.00	44.82	49.52	-66.37	-153.38	2,235.31	349.27	264.08	85.18	4.100	
10,300.00	7,870.00	10,272.25	7,730.00	44.66	49.38	-66.37	-253.38	2,234.96	349.27	262.82	86.45	4.040	
10,400.00	7,870.00	10,372.25	7,730.00	44.56	49.29	-66.37	-353.38	2,234.62	349.27	261.45	87.82	3.977	
10,500.00	7,870.00	10,472.25	7,730.00	44.58	49.25	-66.37	-453.38	2,234.28	349.26	259.97	89.29	3.911	
10,600.00	7,870.00	10,572.25	7,730.00	44.82	49.29	-66.37	-553.38	2,233.94	349.26	258.40	90.86	3.844	
10,700.00	7,870.00	10,672.25	7,730.00	45.36	49.44	-66.37	-653.38	2,233.60	349.26	256.74	92.52	3.775	
10,800.00	7,870.00	10,772.25	7,730.00	46.15	49.72	-66.37	-753.38	2,233.26	349.26	254.99	94.27	3.705	
10,900.00	7,870.00	10,872.25	7,730.00	47.09	50.16	-66.37	-853.37	2,232.92	349.26	253.16	96.10	3.635	
11,000.00	7,870.00	10,972.25	7,730.00	48.13	50.76	-66.37	-953.37	2,232.58	349.26	251.26	98.00	3.564	
11,100.00	7,870.00	11,072.25	7,730.00	49.22	51.51	-66.37	-1,053.37	2,232.24	349.26	249.28	99.98	3.493	
11,200.00	7,870.00	11,172.25	7,730.00	50.37	52.40	-66.37	-1,153.37	2,231.90	349.26	247.23	102.02	3.423	
11,300.00	7,870.00	11,272.25	7,730.00	51.55	53.38	-66.37	-1,253.37	2,231.56	349.25	245.12	104.13	3.354	
11,400.00	7,870.00	11,372.25	7,730.00	52.76	54.44	-66.37	-1,353.37	2,231.22	349.25	242.95	106.30	3.285	
11,500.00	7,870.00	11,472.25	7,730.00	54.00	55.57	-66.37	-1,453.37	2,230.87	349.25	240.72	108.53	3.218	
11,600.00	7,870.00	11,572.25	7,730.00	55.27	56.74	-66.37	-1,553.37	2,230.53	349.25	238.44	110.81	3.152	
11,700.00	7,870.00	11,672.25	7,730.00	56.56	57.95	-66.37	-1,653.37	2,230.19	349.25	236.11	113.14	3.087	
11,800.00	7,870.00	11,772.25	7,730.00	57.88	59.20	-66.37	-1,753.37	2,229.85	349.25	233.73	115.52	3.023	
11,900.00	7,870.00	11,872.25	7,730.00	59.21	60.48	-66.37	-1,853.37	2,229.51	349.25	231.30	117.94	2.961	
12,000.00	7,870.00	11,972.25	7,730.00	60.57	61.79	-66.37	-1,953.37	2,229.17	349.25	228.84	120.41	2.900	
12,100.00	7,870.00	12,072.25	7,730.00	61.94	63.12	-66.37	-2,053.37	2,228.83	349.24	226.33	122.91	2.841	
12,200.00	7,870.00	12,172.25	7,730.00	63.33	64.47	-66.37	-2,153.37	2,228.49	349.24	223.79	125.45	2.784	
12,300.00	7,870.00	12,272.25	7,730.00	64.74	65.84	-66.37	-2,253.37	2,228.15	349.24	221.21	128.03	2.728	
12,400.00	7,870.00	12,372.25	7,730.00	66.16	67.23	-66.37	-2,353.37	2,227.81	349.24	218.60	130.64	2.673	
12,500.00	7,870.00	12,472.25	7,730.00	67.59	68.64	-66.37	-2,453.37	2,227.47	349.24	215.96	133.27	2.620	
12,600.00	7,870.00	12,572.25	7,730.00	69.04	70.06	-66.37	-2,553.36	2,227.12	349.24	213.30	135.94	2.569	
12,700.00	7,870.00	12,672.25	7,730.00	70.51	71.49	-66.37	-2,653.36	2,226.78	349.24	210.60	138.64	2.519	
12,800.00	7,870.00	12,772.25	7,730.00	71.98	72.94	-66.37	-2,753.36	2,226.44	349.24	207.88	141.36	2.471	
12,900.00	7,870.00	12,872.25	7,730.00	73.47	74.41	-66.37	-2,853.36	2,226.10	349.23	205.13	144.10	2.424	
13,000.00	7,870.00	12,972.25	7,730.00	74.96	75.88	-66.37	-2,953.36	2,225.76	349.23	202.37	146.87	2.378	
13,100.00	7,870.00	13,072.25	7,730.00	76.47	77.37	-66.37	-3,053.36	2,225.42	349.23	199.58	149.66	2.334	
13,200.00	7,870.00	13,172.25	7,730.00	77.99	78.86	-66.37	-3,153.36	2,225.08	349.23	196.76	152.47	2.291	
13,300.00	7,870.00	13,272.25	7,730.00	79.51	80.37	-66.37	-3,253.36	2,224.74	349.23	193.94	155.29	2.249	
13,400.00	7,870.00	13,372.25	7,730.00	81.05	81.89	-66.37	-3,353.36	2,224.40	349.23	191.09	158.14	2.208	
13,500.00	7,870.00	13,472.25	7,730.00	82.59	83.41	-66.37	-3,453.36	2,224.06	349.23	188.22	161.00	2.169	
13,600.00	7,870.00	13,572.25	7,730.00	84.14	84.95	-66.37	-3,553.36	2,223.72	349.23	185.34	163.89	2.131	
13,700.00	7,870.00	13,672.25	7,730.00	85.70	86.49	-66.37	-3,653.36	2,223.37	349.22	182.44	166.78	2.094	
13,800.00	7,870.00	13,772.25	7,730.00	87.26	88.04	-66.37	-3,753.36	2,223.03	349.22	179.53	169.69	2.058	
13,900.00	7,870.00	13,872.25	7,730.00	88.83	89.59	-66.37	-3,853.36	2,222.69	349.22	176.61	172.62	2.023	
14,000.00	7,870.00	13,972.25	7,730.00	90.41	91.16	-66.37	-3,953.36	2,222.35	349.22	173.67	175.55	1.989	
14,100.00	7,870.00	14,072.25	7,730.00	92.00	92.73	-66.37	-4,053.36	2,222.01	349.22	170.71	178.50	1.956	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	14,172.25	7,730.00	93.59	94.30	-66.37	-4,153.36	2,221.67	349.22	167.75	181.47	1.924	
14,300.00	7,870.00	14,272.25	7,730.00	95.18	95.89	-66.37	-4,253.36	2,221.33	349.22	164.78	184.44	1.893	
14,400.00	7,870.00	14,372.25	7,730.00	96.79	97.47	-66.37	-4,353.35	2,220.99	349.22	161.79	187.43	1.863	
14,500.00	7,870.00	14,472.25	7,730.00	98.39	99.07	-66.37	-4,453.35	2,220.65	349.21	158.79	190.42	1.834	
14,600.00	7,870.00	14,572.25	7,730.00	100.00	100.67	-66.37	-4,553.35	2,220.31	349.21	155.79	193.43	1.805	
14,700.00	7,870.00	14,672.25	7,730.00	101.62	102.27	-66.37	-4,653.35	2,219.97	349.21	152.77	196.44	1.778	
14,800.00	7,870.00	14,772.25	7,730.00	103.24	103.88	-66.37	-4,753.35	2,219.62	349.21	149.75	199.46	1.751	
14,900.00	7,870.00	14,872.25	7,730.00	104.87	105.49	-66.37	-4,853.35	2,219.28	349.21	146.71	202.50	1.725	
15,000.00	7,870.00	14,972.25	7,730.00	106.50	107.11	-66.37	-4,953.35	2,218.94	349.21	143.67	205.54	1.699	
15,100.00	7,870.00	15,072.25	7,730.00	108.13	108.73	-66.36	-5,053.35	2,218.60	349.21	140.62	208.59	1.674	
15,200.00	7,870.00	15,172.25	7,730.00	109.77	110.36	-66.36	-5,153.35	2,218.26	349.21	137.56	211.64	1.650	
15,300.00	7,870.00	15,272.25	7,730.00	111.41	111.99	-66.36	-5,253.35	2,217.92	349.20	134.50	214.70	1.626	
15,400.00	7,870.00	15,372.25	7,730.00	113.05	113.62	-66.36	-5,353.35	2,217.58	349.20	131.43	217.77	1.604	
15,500.00	7,870.00	15,472.25	7,730.00	114.70	115.26	-66.36	-5,453.35	2,217.24	349.20	128.35	220.85	1.581	
15,600.00	7,870.00	15,572.25	7,730.00	116.35	116.90	-66.36	-5,553.35	2,216.90	349.20	125.27	223.93	1.559	
15,700.00	7,870.00	15,672.25	7,730.00	118.00	118.55	-66.36	-5,653.35	2,216.56	349.20	122.18	227.02	1.538	
15,800.00	7,870.00	15,772.25	7,730.00	119.66	120.19	-66.36	-5,753.35	2,216.22	349.20	119.08	230.12	1.517	
15,900.00	7,870.00	15,872.25	7,730.00	121.32	121.84	-66.36	-5,853.35	2,215.87	349.20	115.98	233.22	1.497	Level 3
16,000.00	7,870.00	15,972.25	7,730.00	122.98	123.50	-66.36	-5,953.35	2,215.53	349.20	112.87	236.32	1.478	Level 3
16,100.00	7,870.00	16,072.25	7,730.00	124.65	125.15	-66.36	-6,053.34	2,215.19	349.19	109.76	239.43	1.458	Level 3
16,200.00	7,870.00	16,172.25	7,730.00	126.32	126.81	-66.36	-6,153.34	2,214.85	349.19	106.64	242.55	1.440	Level 3
16,300.00	7,870.00	16,272.25	7,730.00	127.99	128.47	-66.36	-6,253.34	2,214.51	349.19	103.52	245.67	1.421	Level 3
16,400.00	7,870.00	16,372.25	7,730.00	129.66	130.14	-66.36	-6,353.34	2,214.17	349.19	100.39	248.80	1.404	Level 3
16,500.00	7,870.00	16,472.25	7,730.00	131.33	131.80	-66.36	-6,453.34	2,213.83	349.19	97.26	251.93	1.386	Level 3
16,600.00	7,870.00	16,572.25	7,730.00	133.01	133.47	-66.36	-6,553.34	2,213.49	349.19	94.13	255.06	1.369	Level 3
16,700.00	7,870.00	16,672.25	7,730.00	134.69	135.15	-66.36	-6,653.34	2,213.15	349.19	90.99	258.20	1.352	Level 3
16,800.00	7,870.00	16,772.25	7,730.00	136.37	136.82	-66.36	-6,753.34	2,212.81	349.19	87.84	261.34	1.336	Level 3
16,900.00	7,870.00	16,872.25	7,730.00	138.06	138.49	-66.36	-6,853.34	2,212.47	349.18	84.70	264.49	1.320	Level 3
17,000.00	7,870.00	16,972.25	7,730.00	139.74	140.17	-66.36	-6,953.34	2,212.12	349.18	81.55	267.64	1.305	Level 3
17,100.00	7,870.00	17,072.25	7,730.00	141.43	141.85	-66.36	-7,053.34	2,211.78	349.18	78.39	270.79	1.289	Level 3
17,200.00	7,870.00	17,172.25	7,730.00	143.12	143.53	-66.36	-7,153.34	2,211.44	349.18	75.23	273.95	1.275	Level 3
17,300.00	7,870.00	17,272.25	7,730.00	144.81	145.22	-66.36	-7,253.34	2,211.10	349.18	72.07	277.11	1.260	Level 3
17,400.00	7,870.00	17,372.25	7,730.00	146.50	146.90	-66.36	-7,353.34	2,210.76	349.18	68.91	280.27	1.246	Level 2
17,500.00	7,870.00	17,472.25	7,730.00	148.19	148.59	-66.36	-7,453.34	2,210.42	349.18	65.74	283.44	1.232	Level 2
17,600.00	7,870.00	17,572.25	7,730.00	149.89	150.28	-66.36	-7,553.34	2,210.08	349.17	62.57	286.61	1.218	Level 2
17,700.00	7,870.00	17,672.25	7,730.00	151.59	151.97	-66.36	-7,653.34	2,209.74	349.17	59.40	289.78	1.205	Level 2
17,800.00	7,870.00	17,772.25	7,730.00	153.29	153.66	-66.36	-7,753.33	2,209.40	349.17	56.22	292.95	1.192	Level 2
17,900.00	7,870.00	17,872.25	7,730.00	154.99	155.36	-66.36	-7,853.33	2,209.06	349.17	53.04	296.13	1.179	Level 2
18,000.00	7,870.00	17,972.25	7,730.00	156.69	157.05	-66.36	-7,953.33	2,208.72	349.17	49.86	299.31	1.167	Level 2
18,100.00	7,870.00	18,072.25	7,730.00	158.39	158.75	-66.36	-8,053.33	2,208.37	349.17	46.67	302.49	1.154	Level 2
18,200.00	7,870.00	18,172.25	7,730.00	160.09	160.45	-66.36	-8,153.33	2,208.03	349.17	43.49	305.68	1.142	Level 2
18,300.00	7,870.00	18,272.25	7,730.00	161.80	162.15	-66.36	-8,253.33	2,207.69	349.17	40.30	308.87	1.130	Level 2
18,400.00	7,870.00	18,372.25	7,730.00	163.51	163.85	-66.36	-8,353.33	2,207.35	349.16	37.11	312.06	1.119	Level 2
18,455.45	7,870.00	18,427.70	7,730.00	164.45	164.79	-66.36	-8,408.78	2,207.16	349.16	35.34	313.83	1.113	Level 2, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	91.05	-0.36	19.88	19.88				
100.00	100.00	100.00	100.00	0.13	0.13	91.05	-0.36	19.88	19.88	19.61	0.27	73.957	
200.00	200.00	200.00	200.00	0.49	0.49	91.05	-0.36	19.88	19.88	18.90	0.99	20.170	
300.00	300.00	300.00	300.00	0.85	0.85	91.05	-0.36	19.88	19.88	18.18	1.70	11.677	
400.00	400.00	400.00	400.00	1.21	1.21	91.05	-0.36	19.88	19.88	17.46	2.42	8.217	
500.00	500.00	500.00	500.00	1.57	1.57	91.05	-0.36	19.88	19.88	16.75	3.14	6.339	
600.00	600.00	600.00	600.00	1.93	1.93	91.05	-0.36	19.88	19.88	16.03	3.85	5.160	
700.00	700.00	700.00	700.00	2.29	2.29	91.05	-0.36	19.88	19.88	15.31	4.57	4.350	
800.00	800.00	800.00	800.00	2.64	2.64	91.05	-0.36	19.88	19.88	14.60	5.29	3.761	
900.00	900.00	900.00	900.00	3.00	3.00	91.05	-0.36	19.88	19.88	13.88	6.00	3.311	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	91.05	-0.36	19.88	19.88	13.16	6.72	2.958	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	91.05	-0.36	19.88	19.88	12.45	7.44	2.673	CC, ES
1,200.00	1,200.00	1,199.43	1,199.41	4.08	4.07	88.06	0.72	21.22	21.24	13.10	8.15	2.607	
1,300.00	1,300.00	1,298.62	1,298.46	4.44	4.42	81.08	3.96	25.23	25.59	16.74	8.85	2.893	
1,400.00	1,399.98	1,397.50	1,396.96	4.79	4.78	32.27	9.33	31.89	31.88	22.35	9.53	3.345	
1,500.00	1,499.84	1,496.13	1,494.87	5.15	5.14	29.03	16.82	41.15	38.56	28.35	10.20	3.779	
1,600.00	1,599.45	1,594.53	1,592.08	5.51	5.51	27.33	26.39	53.00	45.46	34.59	10.87	4.184	
1,700.00	1,698.70	1,692.69	1,688.47	5.87	5.90	26.57	38.03	67.40	52.52	41.00	11.52	4.559	
1,800.00	1,797.47	1,790.62	1,783.95	6.24	6.31	26.43	51.69	84.32	59.71	47.54	12.17	4.905	
1,900.00	1,895.62	1,888.30	1,878.39	6.63	6.74	26.71	67.36	103.72	67.01	54.18	12.82	5.225	
2,000.00	1,993.06	1,985.75	1,971.71	7.04	7.20	27.27	85.00	125.55	74.42	60.94	13.48	5.521	
2,100.00	2,089.64	2,082.97	2,063.79	7.48	7.70	28.03	104.57	149.78	81.94	67.80	14.15	5.792	
2,200.00	2,185.27	2,179.95	2,154.55	7.94	8.24	28.95	126.04	176.36	89.59	74.75	14.83	6.040	
2,300.00	2,279.82	2,276.70	2,243.89	8.45	8.83	29.97	149.37	205.24	97.35	81.81	15.54	6.264	
2,400.00	2,373.17	2,373.22	2,331.72	8.99	9.46	31.06	174.52	236.38	105.26	88.97	16.29	6.461	
2,500.00	2,465.21	2,469.52	2,417.95	9.58	10.14	32.21	201.46	269.71	113.30	96.21	17.09	6.631	
2,574.08	2,532.50	2,540.72	2,480.76	10.04	10.68	33.09	222.53	295.80	119.35	101.64	17.71	6.738	
2,600.00	2,555.89	2,565.60	2,502.50	10.21	10.87	33.39	230.12	305.20	121.59	103.65	17.94	6.779	
2,700.00	2,646.16	2,664.10	2,588.00	10.88	11.67	34.25	260.85	343.24	131.32	112.38	18.94	6.933	
2,800.00	2,736.44	2,763.60	2,674.31	11.57	12.50	34.98	291.96	381.75	141.19	121.17	20.03	7.050	
2,900.00	2,826.71	2,863.09	2,760.63	12.27	13.35	35.61	323.06	420.25	151.08	129.94	21.14	7.146	
3,000.00	2,916.98	2,962.59	2,846.94	13.00	14.22	36.17	354.17	458.75	160.99	138.71	22.28	7.225	
3,100.00	3,007.25	3,062.09	2,933.25	13.73	15.10	36.66	385.27	497.26	170.91	147.46	23.45	7.289	
3,200.00	3,097.52	3,161.58	3,019.56	14.48	16.00	37.10	416.37	535.76	180.84	156.21	24.63	7.342	
3,300.00	3,187.80	3,261.08	3,105.87	15.23	16.90	37.49	447.48	574.27	190.78	164.94	25.83	7.385	
3,400.00	3,278.07	3,360.58	3,192.18	15.99	17.81	37.84	478.58	612.77	200.72	173.67	27.05	7.421	
3,500.00	3,368.34	3,460.07	3,278.49	16.76	18.73	38.16	509.69	651.28	210.68	182.40	28.28	7.450	
3,600.00	3,458.61	3,559.57	3,364.80	17.54	19.65	38.45	540.79	689.78	220.64	191.12	29.52	7.473	
3,700.00	3,548.89	3,659.07	3,451.11	18.32	20.58	38.71	571.90	728.29	230.60	199.83	30.78	7.493	
3,800.00	3,639.16	3,758.56	3,537.42	19.10	21.51	38.96	603.00	766.79	240.57	208.53	32.04	7.509	
3,900.00	3,729.43	3,858.06	3,623.73	19.89	22.44	39.18	634.11	805.30	250.55	217.24	33.31	7.521	
4,000.00	3,819.70	3,957.56	3,710.04	20.69	23.38	39.39	665.21	843.80	260.52	225.93	34.59	7.532	
4,100.00	3,909.98	4,057.05	3,796.35	21.48	24.32	39.58	696.32	882.30	270.50	234.63	35.88	7.540	
4,200.00	4,000.25	4,156.55	3,882.66	22.28	25.27	39.76	727.42	920.81	280.49	243.32	37.17	7.547	
4,300.00	4,090.52	4,256.05	3,968.97	23.08	26.22	39.92	758.53	959.31	290.47	252.01	38.47	7.552	
4,400.00	4,180.79	4,355.54	4,055.28	23.88	27.16	40.08	789.63	997.82	300.46	260.69	39.77	7.555	
4,500.00	4,271.06	4,455.04	4,141.59	24.69	28.12	40.22	820.73	1,036.32	310.45	269.38	41.07	7.558	
4,600.00	4,361.34	4,554.54	4,227.91	25.49	29.07	40.36	851.84	1,074.83	320.44	278.06	42.39	7.560	
4,700.00	4,451.61	4,654.03	4,314.22	26.30	30.02	40.49	882.94	1,113.33	330.44	286.74	43.70	7.561	
4,800.00	4,541.88	4,753.53	4,400.53	27.11	30.98	40.61	914.05	1,151.84	340.43	295.41	45.02	7.562	
4,900.00	4,632.15	4,853.03	4,486.84	27.92	31.93	40.72	945.15	1,190.34	350.43	304.09	46.34	7.562	
5,000.00	4,722.43	4,952.53	4,573.15	28.74	32.89	40.83	976.26	1,228.85	360.43	312.76	47.67	7.561	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,052.02	4,659.46	29.55	33.85	40.93	1,007.36	1,267.35	370.42	321.43	48.99	7.561	
5,200.00	4,902.97	5,151.52	4,745.77	30.37	34.81	41.02	1,038.47	1,305.85	380.42	330.10	50.32	7.560	
5,300.00	4,993.24	5,251.02	4,832.08	31.18	35.77	41.11	1,069.57	1,344.36	390.42	338.77	51.66	7.558	
5,400.00	5,083.51	5,350.51	4,918.39	32.00	36.73	41.20	1,100.68	1,382.86	400.43	347.44	52.99	7.557	
5,500.00	5,173.79	5,450.01	5,004.70	32.82	37.70	41.28	1,131.78	1,421.37	410.43	356.10	54.33	7.555	
5,600.00	5,264.06	5,549.51	5,091.01	33.63	38.66	41.36	1,162.88	1,459.87	420.43	364.77	55.66	7.553	
5,700.00	5,354.33	5,649.00	5,177.32	34.45	39.62	41.44	1,193.99	1,498.38	430.44	373.43	57.00	7.551	
5,800.00	5,444.60	5,748.50	5,263.63	35.27	40.59	41.51	1,225.09	1,536.88	440.44	382.10	58.35	7.549	
5,900.00	5,534.88	5,848.00	5,349.94	36.09	41.55	41.57	1,256.20	1,575.39	450.45	390.76	59.69	7.547	
6,000.00	5,625.15	5,947.49	5,436.25	36.91	42.52	41.64	1,287.30	1,613.89	460.45	399.42	61.03	7.544	
6,100.00	5,715.42	6,046.99	5,522.56	37.74	43.48	41.70	1,318.41	1,652.40	470.46	408.08	62.38	7.542	
6,200.00	5,805.69	6,146.49	5,608.87	38.56	44.45	41.76	1,349.51	1,690.90	480.47	416.74	63.73	7.540	
6,300.00	5,895.96	6,245.98	5,695.19	39.38	45.42	41.82	1,380.62	1,729.40	490.47	425.40	65.07	7.537	
6,400.00	5,986.24	6,345.48	5,781.50	40.20	46.38	41.87	1,411.72	1,767.91	500.48	434.06	66.42	7.535	
6,500.00	6,076.51	6,444.98	5,867.81	41.03	47.35	41.93	1,442.83	1,806.41	510.49	442.72	67.77	7.532	
6,600.00	6,166.78	6,544.47	5,954.12	41.85	48.32	41.98	1,473.93	1,844.92	520.50	451.37	69.13	7.530	
6,700.00	6,257.05	6,643.97	6,040.43	42.67	49.29	42.03	1,505.04	1,883.42	530.51	460.03	70.48	7.527	
6,800.00	6,347.33	6,743.47	6,126.74	43.50	50.26	42.07	1,536.14	1,921.93	540.52	468.69	71.83	7.525	
6,900.00	6,437.60	6,842.96	6,213.05	44.32	51.23	42.12	1,567.24	1,960.43	550.53	477.34	73.18	7.522	
7,000.00	6,527.87	6,942.46	6,299.36	45.15	52.20	42.16	1,598.35	1,998.94	560.54	486.00	74.54	7.520	
7,100.00	6,618.14	7,041.96	6,385.67	45.98	53.17	42.21	1,629.45	2,037.44	570.55	494.66	75.90	7.518	
7,200.00	6,708.41	7,141.45	6,471.98	46.80	54.14	42.25	1,660.56	2,075.95	580.56	503.31	77.25	7.515	
7,300.00	6,798.69	7,240.95	6,558.29	47.63	55.11	42.29	1,691.66	2,114.45	590.57	511.96	78.61	7.513	
7,400.00	6,888.96	7,340.45	6,644.60	48.45	56.08	42.32	1,722.77	2,152.95	600.58	520.62	79.97	7.511	
7,500.00	6,979.23	7,439.95	6,730.91	49.28	57.05	42.36	1,753.87	2,191.46	610.60	529.27	81.32	7.508	
7,600.00	7,069.50	7,539.44	6,817.22	50.11	58.02	42.40	1,784.98	2,229.96	620.61	537.93	82.68	7.506	
7,692.09	7,152.63	7,631.06	6,896.70	50.87	58.91	42.43	1,813.62	2,265.42	629.83	545.89	83.93	7.504	
7,700.00	7,159.79	7,638.94	6,903.53	50.93	58.99	41.29	1,816.08	2,268.47	630.62	546.59	84.04	7.504	
7,750.00	7,205.70	7,688.61	6,946.63	51.32	59.47	32.50	1,831.59	2,287.69	635.72	551.24	84.48	7.525	
7,800.00	7,252.52	7,738.54	6,990.62	51.66	59.94	20.89	1,844.68	2,307.31	640.94	556.22	84.73	7.565	
7,850.00	7,299.89	7,788.86	7,035.84	51.96	60.37	6.78	1,853.59	2,327.46	646.26	561.36	84.90	7.612	
7,900.00	7,347.44	7,839.58	7,081.97	52.20	60.76	-8.43	1,858.13	2,348.00	651.62	566.63	84.99	7.667	
7,950.00	7,394.83	7,890.70	7,128.67	52.39	61.11	-22.61	1,858.18	2,368.77	657.00	571.98	85.02	7.728	
8,000.00	7,441.68	7,942.24	7,175.56	52.53	61.40	-34.33	1,853.62	2,389.62	662.34	577.34	85.00	7.793	
8,050.00	7,487.65	7,994.20	7,222.27	52.62	61.64	-43.34	1,844.37	2,410.37	667.60	582.67	84.93	7.861	
8,100.00	7,532.37	8,046.58	7,268.40	52.67	61.83	-50.10	1,830.40	2,430.85	672.73	587.91	84.83	7.931	
8,150.00	7,575.52	8,099.37	7,313.51	52.67	61.96	-55.15	1,811.72	2,450.86	677.70	593.01	84.70	8.001	
8,200.00	7,616.76	8,152.56	7,357.20	52.63	62.04	-58.95	1,788.39	2,470.21	682.47	597.92	84.55	8.072	
8,250.00	7,655.77	8,206.14	7,399.01	52.55	62.07	-61.85	1,760.51	2,488.72	686.99	602.59	84.39	8.140	
8,300.00	7,692.27	8,260.07	7,438.52	52.44	62.05	-64.08	1,728.25	2,506.19	691.22	606.99	84.23	8.207	
8,350.00	7,725.97	8,314.34	7,475.31	52.29	61.99	-65.81	1,691.85	2,522.44	695.12	611.06	84.06	8.269	
8,400.00	7,756.62	8,368.90	7,508.97	52.12	61.88	-67.14	1,651.57	2,537.27	698.67	614.78	83.89	8.328	
8,450.00	7,783.98	8,423.71	7,539.10	51.92	61.74	-68.17	1,607.78	2,550.54	701.83	618.10	83.73	8.382	
8,500.00	7,807.85	8,478.73	7,565.37	51.70	61.56	-68.95	1,560.86	2,562.07	704.57	621.00	83.57	8.431	
8,550.00	7,828.05	8,533.90	7,587.47	51.45	61.35	-69.53	1,511.27	2,571.73	706.87	623.45	83.42	8.474	
8,600.00	7,844.41	8,589.16	7,605.14	51.20	61.12	-69.94	1,459.50	2,579.42	708.72	625.44	83.27	8.511	
8,650.00	7,856.82	8,644.46	7,618.18	50.93	60.87	-70.19	1,406.07	2,585.04	710.08	626.95	83.13	8.542	
8,700.00	7,865.18	8,699.73	7,626.46	50.65	60.60	-70.31	1,351.56	2,588.54	710.97	627.98	82.99	8.567	
8,750.00	7,869.43	8,754.92	7,629.89	50.36	60.33	-70.31	1,296.52	2,589.88	711.36	628.51	82.85	8.586	
8,776.25	7,870.00	8,782.24	7,630.00	50.21	60.19	-70.28	1,269.20	2,589.84	711.39	628.69	82.70	8.602	
8,800.00	7,870.00	8,805.98	7,630.00	50.08	60.07	-70.28	1,245.45	2,589.76	711.39	628.86	82.53	8.620	
8,900.00	7,870.00	8,905.98	7,630.00	49.53	59.58	-70.28	1,145.45	2,589.42	711.39	629.49	81.90	8.686	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	9,005.98	7,630.00	49.01	59.12	-70.28	1,045.45	2,589.08	711.39	629.98	81.41	8.738	
9,100.00	7,870.00	9,105.98	7,630.00	48.52	58.68	-70.28	945.45	2,588.75	711.40	630.34	81.05	8.777	
9,200.00	7,870.00	9,205.98	7,630.00	48.06	58.27	-70.28	845.45	2,588.41	711.40	630.56	80.84	8.800	
9,300.00	7,870.00	9,305.98	7,630.00	47.63	57.88	-70.28	745.45	2,588.08	711.40	630.64	80.76	8.809	
9,400.00	7,870.00	9,405.98	7,630.00	47.22	57.52	-70.28	645.45	2,587.74	711.41	630.58	80.83	8.802	
9,500.00	7,870.00	9,505.98	7,630.00	46.83	57.17	-70.28	545.46	2,587.40	711.41	630.38	81.03	8.780	
9,600.00	7,870.00	9,605.98	7,630.00	46.48	56.85	-70.28	445.46	2,587.07	711.41	630.04	81.38	8.742	
9,700.00	7,870.00	9,705.98	7,630.00	46.14	56.56	-70.28	345.46	2,586.73	711.42	629.56	81.86	8.691	
9,800.00	7,870.00	9,805.98	7,630.00	45.83	56.28	-70.28	245.46	2,586.39	711.42	628.95	82.47	8.626	
9,900.00	7,870.00	9,905.98	7,630.00	45.54	56.03	-70.28	145.46	2,586.06	711.42	628.20	83.23	8.548	
10,000.00	7,870.00	10,005.98	7,630.00	45.27	55.81	-70.28	45.46	2,585.72	711.42	627.32	84.10	8.459	
10,100.00	7,870.00	10,105.98	7,630.00	45.03	55.61	-70.28	-54.54	2,585.38	711.43	626.32	85.11	8.359	
10,200.00	7,870.00	10,205.98	7,630.00	44.82	55.45	-70.28	-154.54	2,585.05	711.43	625.21	86.22	8.251	
10,300.00	7,870.00	10,305.98	7,630.00	44.66	55.31	-70.28	-254.54	2,584.71	711.43	623.97	87.47	8.134	
10,400.00	7,870.00	10,405.98	7,630.00	44.56	55.21	-70.28	-354.54	2,584.38	711.44	622.63	88.81	8.011	
10,500.00	7,870.00	10,505.98	7,630.00	44.58	55.15	-70.28	-454.54	2,584.04	711.44	621.17	90.27	7.881	
10,600.00	7,870.00	10,605.98	7,630.00	44.82	55.14	-70.28	-554.54	2,583.70	711.44	619.62	91.82	7.748	
10,700.00	7,870.00	10,705.98	7,630.00	45.36	55.18	-70.29	-654.54	2,583.37	711.45	617.97	93.47	7.611	
10,800.00	7,870.00	10,805.98	7,630.00	46.15	55.29	-70.29	-754.54	2,583.03	711.45	616.23	95.22	7.472	
10,900.00	7,870.00	10,905.98	7,630.00	47.09	55.48	-70.29	-854.54	2,582.69	711.45	614.41	97.04	7.331	
11,000.00	7,870.00	11,005.98	7,630.00	48.13	55.76	-70.29	-954.54	2,582.36	711.45	612.50	98.95	7.190	
11,100.00	7,870.00	11,105.98	7,630.00	49.22	56.14	-70.29	-1,054.54	2,582.02	711.46	610.52	100.94	7.049	
11,200.00	7,870.00	11,205.98	7,630.00	50.37	56.63	-70.29	-1,154.54	2,581.68	711.46	608.47	102.99	6.908	
11,300.00	7,870.00	11,305.98	7,630.00	51.55	57.24	-70.29	-1,254.53	2,581.35	711.46	606.34	105.12	6.768	
11,400.00	7,870.00	11,405.98	7,630.00	52.76	57.95	-70.29	-1,354.53	2,581.01	711.47	604.16	107.31	6.630	
11,500.00	7,870.00	11,505.98	7,630.00	54.00	58.77	-70.29	-1,454.53	2,580.68	711.47	601.91	109.55	6.494	
11,600.00	7,870.00	11,605.98	7,630.00	55.27	59.68	-70.29	-1,554.53	2,580.34	711.47	599.61	111.86	6.360	
11,700.00	7,870.00	11,705.98	7,630.00	56.56	60.67	-70.29	-1,654.53	2,580.00	711.47	597.26	114.22	6.229	
11,800.00	7,870.00	11,805.98	7,630.00	57.88	61.73	-70.29	-1,754.53	2,579.67	711.48	594.85	116.62	6.101	
11,900.00	7,870.00	11,905.98	7,630.00	59.21	62.85	-70.29	-1,854.53	2,579.33	711.48	592.40	119.08	5.975	
12,000.00	7,870.00	12,005.98	7,630.00	60.57	64.02	-70.29	-1,954.53	2,578.99	711.48	589.91	121.58	5.852	
12,100.00	7,870.00	12,105.98	7,630.00	61.94	65.23	-70.29	-2,054.53	2,578.66	711.49	587.37	124.12	5.732	
12,200.00	7,870.00	12,205.98	7,630.00	63.33	66.48	-70.29	-2,154.53	2,578.32	711.49	584.80	126.69	5.616	
12,300.00	7,870.00	12,305.98	7,630.00	64.74	67.76	-70.29	-2,254.53	2,577.98	711.49	582.18	129.31	5.502	
12,400.00	7,870.00	12,405.98	7,630.00	66.16	69.07	-70.29	-2,354.53	2,577.65	711.50	579.54	131.96	5.392	
12,500.00	7,870.00	12,505.98	7,630.00	67.59	70.41	-70.29	-2,454.53	2,577.31	711.50	576.86	134.64	5.285	
12,600.00	7,870.00	12,605.98	7,630.00	69.04	71.76	-70.29	-2,554.53	2,576.98	711.50	574.15	137.35	5.180	
12,700.00	7,870.00	12,705.98	7,630.00	70.51	73.14	-70.29	-2,654.53	2,576.64	711.50	571.42	140.09	5.079	
12,800.00	7,870.00	12,805.98	7,630.00	71.98	74.54	-70.29	-2,754.53	2,576.30	711.51	568.65	142.86	4.981	
12,900.00	7,870.00	12,905.98	7,630.00	73.47	75.95	-70.29	-2,854.53	2,575.97	711.51	565.86	145.65	4.885	
13,000.00	7,870.00	13,005.98	7,630.00	74.96	77.38	-70.29	-2,954.53	2,575.63	711.51	563.05	148.46	4.793	
13,100.00	7,870.00	13,105.98	7,630.00	76.47	78.82	-70.29	-3,054.52	2,575.29	711.52	560.21	151.30	4.703	
13,200.00	7,870.00	13,205.98	7,630.00	77.99	80.28	-70.29	-3,154.52	2,574.96	711.52	557.36	154.16	4.615	
13,300.00	7,870.00	13,305.98	7,630.00	79.51	81.75	-70.29	-3,254.52	2,574.62	711.52	554.48	157.04	4.531	
13,400.00	7,870.00	13,405.98	7,630.00	81.05	83.23	-70.29	-3,354.52	2,574.28	711.53	551.58	159.94	4.449	
13,500.00	7,870.00	13,505.98	7,630.00	82.59	84.72	-70.29	-3,454.52	2,573.95	711.53	548.67	162.86	4.369	
13,600.00	7,870.00	13,605.98	7,630.00	84.14	86.23	-70.29	-3,554.52	2,573.61	711.53	545.74	165.79	4.292	
13,700.00	7,870.00	13,705.98	7,630.00	85.70	87.74	-70.29	-3,654.52	2,573.28	711.53	542.79	168.75	4.217	
13,800.00	7,870.00	13,805.98	7,630.00	87.26	89.26	-70.29	-3,754.52	2,572.94	711.54	539.83	171.71	4.144	
13,900.00	7,870.00	13,905.98	7,630.00	88.83	90.79	-70.29	-3,854.52	2,572.60	711.54	536.85	174.69	4.073	
14,000.00	7,870.00	14,005.98	7,630.00	90.41	92.33	-70.29	-3,954.52	2,572.27	711.54	533.86	177.69	4.004	
14,100.00	7,870.00	14,105.98	7,630.00	92.00	93.87	-70.29	-4,054.52	2,571.93	711.55	530.85	180.70	3.938	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	14,205.98	7,630.00	93.59	95.43	-70.29	-4,154.52	2,571.59	711.55	527.83	183.72	3.873	
14,300.00	7,870.00	14,305.98	7,630.00	95.18	96.99	-70.29	-4,254.52	2,571.26	711.55	524.80	186.75	3.810	
14,400.00	7,870.00	14,405.98	7,630.00	96.79	98.55	-70.29	-4,354.52	2,570.92	711.56	521.76	189.79	3.749	
14,500.00	7,870.00	14,505.98	7,630.00	98.39	100.13	-70.29	-4,454.52	2,570.58	711.56	518.71	192.85	3.690	
14,600.00	7,870.00	14,605.98	7,630.00	100.00	101.71	-70.29	-4,554.52	2,570.25	711.56	515.65	195.91	3.632	
14,700.00	7,870.00	14,705.98	7,630.00	101.62	103.29	-70.29	-4,654.52	2,569.91	711.56	512.57	198.99	3.576	
14,800.00	7,870.00	14,805.98	7,630.00	103.24	104.88	-70.29	-4,754.51	2,569.58	711.57	509.49	202.07	3.521	
14,900.00	7,870.00	14,905.98	7,630.00	104.87	106.48	-70.29	-4,854.51	2,569.24	711.57	506.40	205.17	3.468	
15,000.00	7,870.00	15,005.98	7,630.00	106.50	108.08	-70.29	-4,954.51	2,568.90	711.57	503.30	208.27	3.417	
15,100.00	7,870.00	15,105.98	7,630.00	108.13	109.68	-70.29	-5,054.51	2,568.57	711.58	500.20	211.38	3.366	
15,200.00	7,870.00	15,205.98	7,630.00	109.77	111.29	-70.29	-5,154.51	2,568.23	711.58	497.08	214.50	3.317	
15,300.00	7,870.00	15,305.98	7,630.00	111.41	112.90	-70.29	-5,254.51	2,567.89	711.58	493.96	217.62	3.270	
15,400.00	7,870.00	15,405.98	7,630.00	113.05	114.52	-70.29	-5,354.51	2,567.56	711.58	490.83	220.76	3.223	
15,500.00	7,870.00	15,505.98	7,630.00	114.70	116.14	-70.29	-5,454.51	2,567.22	711.59	487.69	223.90	3.178	
15,600.00	7,870.00	15,605.98	7,630.00	116.35	117.77	-70.29	-5,554.51	2,566.88	711.59	484.55	227.04	3.134	
15,700.00	7,870.00	15,705.98	7,630.00	118.00	119.40	-70.29	-5,654.51	2,566.55	711.59	481.40	230.20	3.091	
15,800.00	7,870.00	15,805.98	7,630.00	119.66	121.03	-70.29	-5,754.51	2,566.21	711.60	478.24	233.35	3.049	
15,900.00	7,870.00	15,905.98	7,630.00	121.32	122.67	-70.29	-5,854.51	2,565.87	711.60	475.08	236.52	3.009	
16,000.00	7,870.00	16,005.98	7,630.00	122.98	124.31	-70.29	-5,954.51	2,565.54	711.60	471.91	239.69	2.969	
16,100.00	7,870.00	16,105.98	7,630.00	124.65	125.95	-70.29	-6,054.51	2,565.20	711.61	468.74	242.86	2.930	
16,200.00	7,870.00	16,205.98	7,630.00	126.32	127.60	-70.29	-6,154.51	2,564.87	711.61	465.56	246.04	2.892	
16,300.00	7,870.00	16,305.98	7,630.00	127.99	129.25	-70.29	-6,254.51	2,564.53	711.61	462.38	249.23	2.855	
16,400.00	7,870.00	16,405.98	7,630.00	129.66	130.90	-70.29	-6,354.51	2,564.19	711.61	459.19	252.42	2.819	
16,500.00	7,870.00	16,505.98	7,630.00	131.33	132.55	-70.29	-6,454.51	2,563.86	711.62	456.00	255.62	2.784	
16,600.00	7,870.00	16,605.98	7,630.00	133.01	134.21	-70.29	-6,554.50	2,563.52	711.62	452.80	258.82	2.750	
16,700.00	7,870.00	16,705.98	7,630.00	134.69	135.87	-70.29	-6,654.50	2,563.18	711.62	449.60	262.02	2.716	
16,800.00	7,870.00	16,805.98	7,630.00	136.37	137.53	-70.29	-6,754.50	2,562.85	711.63	446.40	265.23	2.683	
16,900.00	7,870.00	16,905.98	7,630.00	138.06	139.20	-70.29	-6,854.50	2,562.51	711.63	443.19	268.44	2.651	
17,000.00	7,870.00	17,005.98	7,630.00	139.74	140.87	-70.29	-6,954.50	2,562.17	711.63	439.98	271.66	2.620	
17,100.00	7,870.00	17,105.98	7,630.00	141.43	142.54	-70.29	-7,054.50	2,561.84	711.64	436.76	274.88	2.589	
17,200.00	7,870.00	17,205.98	7,630.00	143.12	144.21	-70.29	-7,154.50	2,561.50	711.64	433.54	278.10	2.559	
17,300.00	7,870.00	17,305.98	7,630.00	144.81	145.88	-70.29	-7,254.50	2,561.17	711.64	430.32	281.32	2.530	
17,400.00	7,870.00	17,405.98	7,630.00	146.50	147.56	-70.29	-7,354.50	2,560.83	711.64	427.09	284.55	2.501	
17,500.00	7,870.00	17,505.98	7,630.00	148.19	149.23	-70.29	-7,454.50	2,560.49	711.65	423.86	287.79	2.473	
17,600.00	7,870.00	17,605.98	7,630.00	149.89	150.91	-70.29	-7,554.50	2,560.16	711.65	420.63	291.02	2.445	
17,700.00	7,870.00	17,705.98	7,630.00	151.59	152.59	-70.29	-7,654.50	2,559.82	711.65	417.39	294.26	2.418	
17,800.00	7,870.00	17,805.98	7,630.00	153.29	154.28	-70.29	-7,754.50	2,559.48	711.66	414.15	297.50	2.392	
17,900.00	7,870.00	17,905.98	7,630.00	154.99	155.96	-70.29	-7,854.50	2,559.15	711.66	410.91	300.75	2.366	
18,000.00	7,870.00	18,005.98	7,630.00	156.69	157.65	-70.29	-7,954.50	2,558.81	711.66	407.66	304.00	2.341	
18,100.00	7,870.00	18,105.98	7,630.00	158.39	159.34	-70.29	-8,054.50	2,558.47	711.66	404.42	307.25	2.316	
18,200.00	7,870.00	18,205.98	7,630.00	160.09	161.03	-70.29	-8,154.50	2,558.14	711.67	401.17	310.50	2.292	
18,300.00	7,870.00	18,305.98	7,630.00	161.80	162.72	-70.29	-8,254.50	2,557.80	711.67	397.91	313.76	2.268	
18,400.00	7,870.00	18,405.98	7,630.00	163.51	164.41	-70.29	-8,354.49	2,557.47	711.67	394.66	317.01	2.245	
18,455.45	7,870.00	18,461.43	7,630.00	164.45	165.35	-70.29	-8,409.94	2,557.28	711.68	392.85	318.82	2.232	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.70	-0.36	29.96	29.96				
100.00	100.00	100.00	100.00	0.13	0.13	90.70	-0.36	29.96	29.96	29.69	0.27	111.445	
200.00	200.00	200.00	200.00	0.49	0.49	90.70	-0.36	29.96	29.96	28.98	0.99	30.394	
300.00	300.00	300.00	300.00	0.85	0.85	90.70	-0.36	29.96	29.96	28.26	1.70	17.597	
400.00	400.00	400.00	400.00	1.21	1.21	90.70	-0.36	29.96	29.96	27.54	2.42	12.383	
500.00	500.00	500.00	500.00	1.57	1.57	90.70	-0.36	29.96	29.96	26.83	3.14	9.552	
600.00	600.00	600.00	600.00	1.93	1.93	90.70	-0.36	29.96	29.96	26.11	3.85	7.775	
700.00	700.00	700.00	700.00	2.29	2.29	90.70	-0.36	29.96	29.96	25.39	4.57	6.556	
800.00	800.00	800.00	800.00	2.64	2.64	90.70	-0.36	29.96	29.96	24.68	5.29	5.667	
900.00	900.00	900.00	900.00	3.00	3.00	90.70	-0.36	29.96	29.96	23.96	6.00	4.990	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.70	-0.36	29.96	29.96	23.24	6.72	4.458	CC, ES
1,100.00	1,100.00	1,099.12	1,099.10	3.72	3.71	88.85	0.63	31.36	31.38	23.95	7.43	4.223	
1,200.00	1,200.00	1,198.01	1,197.85	4.08	4.06	84.22	3.60	35.54	35.78	27.66	8.13	4.403	
1,300.00	1,300.00	1,296.42	1,295.89	4.44	4.42	78.67	8.51	42.45	43.49	34.67	8.82	4.933	
1,400.00	1,399.98	1,394.35	1,393.11	4.79	4.78	31.50	15.33	52.06	53.22	43.73	9.49	5.607	
1,500.00	1,499.84	1,491.93	1,489.52	5.15	5.15	29.17	24.03	64.31	63.34	53.19	10.15	6.240	
1,600.00	1,599.45	1,589.16	1,585.01	5.51	5.53	27.99	34.59	79.18	73.71	62.91	10.80	6.823	
1,700.00	1,698.70	1,686.03	1,679.50	5.87	5.94	27.53	46.97	96.62	84.26	72.81	11.45	7.360	
1,800.00	1,797.47	1,782.56	1,772.86	6.24	6.37	27.56	61.14	116.57	94.96	82.86	12.09	7.853	
1,900.00	1,895.62	1,878.73	1,865.02	6.63	6.84	27.92	77.05	138.98	105.79	93.06	12.74	8.307	
2,000.00	1,993.06	1,974.56	1,955.87	7.04	7.33	28.52	94.69	163.82	116.77	103.38	13.39	8.724	
2,100.00	2,089.64	2,070.04	2,045.33	7.48	7.87	29.28	114.00	191.01	127.89	113.84	14.05	9.104	
2,200.00	2,185.27	2,165.18	2,133.32	7.94	8.45	30.17	134.95	220.51	139.15	124.43	14.73	9.448	
2,300.00	2,279.82	2,259.97	2,219.74	8.45	9.08	31.15	157.49	252.25	150.58	135.14	15.44	9.753	
2,400.00	2,373.17	2,354.43	2,304.53	8.99	9.75	32.18	181.59	286.19	162.18	145.99	16.19	10.019	
2,500.00	2,465.21	2,448.56	2,387.62	9.58	10.48	33.27	207.19	322.25	173.95	156.97	16.98	10.243	
2,574.08	2,532.50	2,520.58	2,447.96	10.04	11.07	34.09	227.10	350.28	182.80	165.18	17.62	10.375	
2,600.00	2,555.89	2,543.71	2,470.13	10.21	11.26	34.42	234.62	360.88	185.92	168.04	17.88	10.398	
2,700.00	2,646.16	2,642.90	2,555.69	10.88	12.12	35.62	263.67	401.78	198.03	179.06	18.97	10.438	
2,800.00	2,736.44	2,742.08	2,641.25	11.57	13.00	36.68	292.72	442.69	210.22	190.12	20.10	10.457	
2,900.00	2,826.71	2,841.26	2,726.81	12.27	13.89	37.63	321.76	483.59	222.48	201.20	21.27	10.459	
3,000.00	2,916.98	2,940.45	2,812.37	13.00	14.80	38.47	350.81	524.50	234.78	212.31	22.47	10.448	
3,100.00	3,007.25	3,039.63	2,897.93	13.73	15.72	39.23	379.86	565.40	247.13	223.43	23.70	10.428	
3,200.00	3,097.52	3,138.81	2,983.49	14.48	16.65	39.92	408.90	606.31	259.52	234.57	24.95	10.402	
3,300.00	3,187.80	3,238.00	3,069.05	15.23	17.58	40.55	437.95	647.21	271.95	245.72	26.22	10.370	
3,400.00	3,278.07	3,337.18	3,154.61	15.99	18.53	41.12	467.00	688.12	284.40	256.88	27.52	10.336	
3,500.00	3,368.34	3,436.36	3,240.17	16.76	19.48	41.64	496.05	729.02	296.88	268.05	28.82	10.299	
3,600.00	3,458.61	3,535.55	3,325.73	17.54	20.43	42.12	525.09	769.93	309.38	279.23	30.15	10.262	
3,700.00	3,548.89	3,634.73	3,411.29	18.32	21.39	42.57	554.14	810.83	321.90	290.41	31.49	10.224	
3,800.00	3,639.16	3,733.91	3,496.85	19.10	22.35	42.98	583.19	851.74	334.43	301.60	32.83	10.185	
3,900.00	3,729.43	3,833.10	3,582.41	19.89	23.32	43.36	612.23	892.64	346.99	312.79	34.19	10.148	
4,000.00	3,819.70	3,932.28	3,667.97	20.69	24.28	43.71	641.28	933.55	359.56	323.99	35.56	10.111	
4,100.00	3,909.98	4,031.46	3,753.53	21.48	25.26	44.04	670.33	974.45	372.14	335.20	36.94	10.074	
4,200.00	4,000.25	4,130.65	3,839.09	22.28	26.23	44.35	699.37	1,015.36	384.73	346.40	38.32	10.039	
4,300.00	4,090.52	4,229.83	3,924.64	23.08	27.20	44.64	728.42	1,056.26	397.33	357.61	39.72	10.004	
4,400.00	4,180.79	4,329.01	4,010.20	23.88	28.18	44.91	757.47	1,097.17	409.94	368.83	41.11	9.971	
4,500.00	4,271.06	4,428.20	4,095.76	24.69	29.16	45.17	786.51	1,138.07	422.56	380.04	42.52	9.938	
4,600.00	4,361.34	4,527.38	4,181.32	25.49	30.14	45.41	815.56	1,178.98	435.19	391.26	43.93	9.907	
4,700.00	4,451.61	4,626.56	4,266.88	26.30	31.12	45.64	844.61	1,219.88	447.82	402.48	45.34	9.877	
4,800.00	4,541.88	4,725.75	4,352.44	27.11	32.11	45.85	873.66	1,260.79	460.46	413.71	46.76	9.848	
4,900.00	4,632.15	4,824.93	4,438.00	27.92	33.09	46.05	902.70	1,301.69	473.11	424.93	48.18	9.820	
5,000.00	4,722.43	4,924.11	4,523.56	28.74	34.07	46.24	931.75	1,342.60	485.76	436.16	49.61	9.793	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,023.30	4,609.12	29.55	35.06	46.43	960.80	1,383.50	498.42	447.39	51.03	9.767	
5,200.00	4,902.97	5,122.48	4,694.68	30.37	36.05	46.60	989.84	1,424.41	511.09	458.62	52.47	9.741	
5,300.00	4,993.24	5,221.67	4,780.24	31.18	37.04	46.77	1,018.89	1,465.31	523.75	469.85	53.90	9.717	
5,400.00	5,083.51	5,320.85	4,865.80	32.00	38.02	46.92	1,047.94	1,506.22	536.42	481.09	55.34	9.694	
5,500.00	5,173.79	5,420.03	4,951.36	32.82	39.01	47.07	1,076.98	1,547.12	549.10	492.32	56.78	9.671	
5,600.00	5,264.06	5,519.22	5,036.92	33.63	40.00	47.22	1,106.03	1,588.03	561.78	503.56	58.22	9.649	
5,700.00	5,354.33	5,618.40	5,122.48	34.45	40.99	47.35	1,135.08	1,628.93	574.46	514.79	59.66	9.628	
5,800.00	5,444.60	5,717.58	5,208.04	35.27	41.98	47.48	1,164.12	1,669.84	587.14	526.03	61.11	9.608	
5,900.00	5,534.88	5,816.77	5,293.60	36.09	42.97	47.61	1,193.17	1,710.74	599.83	537.27	62.56	9.588	
6,000.00	5,625.15	5,915.95	5,379.15	36.91	43.97	47.73	1,222.22	1,751.65	612.52	548.51	64.01	9.569	
6,100.00	5,715.42	6,015.13	5,464.71	37.74	44.96	47.85	1,251.27	1,792.55	625.21	559.76	65.46	9.551	
6,200.00	5,805.69	6,114.32	5,550.27	38.56	45.95	47.96	1,280.31	1,833.46	637.91	571.00	66.91	9.533	
6,300.00	5,895.96	6,213.50	5,635.83	39.38	46.94	48.06	1,309.36	1,874.36	650.61	582.24	68.37	9.516	
6,400.00	5,986.24	6,312.68	5,721.39	40.20	47.94	48.17	1,338.41	1,915.27	663.31	593.48	69.82	9.500	
6,500.00	6,076.51	6,411.87	5,806.95	41.03	48.93	48.26	1,367.45	1,956.17	676.01	604.73	71.28	9.484	
6,600.00	6,166.78	6,511.05	5,892.51	41.85	49.92	48.36	1,396.50	1,997.08	688.71	615.98	72.74	9.468	
6,700.00	6,257.05	6,610.23	5,978.07	42.67	50.92	48.45	1,425.55	2,037.98	701.42	627.22	74.20	9.453	
6,800.00	6,347.33	6,709.42	6,063.63	43.50	51.91	48.54	1,454.59	2,078.89	714.13	638.47	75.66	9.439	
6,900.00	6,437.60	6,808.60	6,149.19	44.32	52.91	48.62	1,483.64	2,119.79	726.83	649.72	77.12	9.425	
7,000.00	6,527.87	6,907.78	6,234.75	45.15	53.90	48.71	1,512.69	2,160.70	739.55	660.96	78.58	9.411	
7,100.00	6,618.14	7,006.97	6,320.31	45.98	54.90	48.79	1,541.73	2,201.60	752.26	672.21	80.05	9.398	
7,200.00	6,708.41	7,106.15	6,405.87	46.80	55.89	48.86	1,570.78	2,242.51	764.97	683.46	81.51	9.385	
7,300.00	6,798.69	7,205.33	6,491.43	47.63	56.89	48.94	1,599.83	2,283.41	777.68	694.71	82.97	9.373	
7,400.00	6,888.96	7,304.52	6,576.99	48.45	57.89	49.01	1,628.88	2,324.32	790.40	705.96	84.44	9.360	
7,500.00	6,979.23	7,403.70	6,662.55	49.28	58.88	49.08	1,657.92	2,365.22	803.12	717.21	85.91	9.349	
7,600.00	7,069.50	7,502.88	6,748.11	50.11	59.88	49.15	1,686.97	2,406.13	815.84	728.46	87.37	9.337	
7,692.09	7,152.63	7,605.78	6,826.89	50.87	60.91	49.21	1,713.72	2,443.80	827.55	738.74	88.81	9.318	
7,700.00	7,159.79	7,602.07	6,833.67	50.93	60.87	48.09	1,716.02	2,447.03	828.55	739.71	88.84	9.326	
7,750.00	7,205.70	7,651.62	6,876.41	51.32	61.37	39.48	1,730.53	2,467.47	834.66	745.28	89.38	9.338	
7,800.00	7,252.52	7,700.82	6,918.86	51.66	61.87	27.86	1,744.94	2,487.76	840.39	750.76	89.63	9.376	
7,850.00	7,299.89	7,749.30	6,960.68	51.96	62.35	13.43	1,759.14	2,507.76	845.79	756.21	89.58	9.442	
7,900.00	7,347.44	7,796.69	7,001.55	52.20	62.83	-2.38	1,773.01	2,527.30	851.00	761.77	89.23	9.537	
7,950.00	7,394.83	7,842.62	7,041.18	52.39	63.29	-17.39	1,786.47	2,546.24	856.18	767.59	88.59	9.665	
8,000.00	7,441.68	7,886.75	7,079.25	52.53	63.74	-30.09	1,799.39	2,564.44	861.55	773.89	87.66	9.828	
8,050.00	7,487.65	7,928.75	7,115.47	52.62	64.16	-40.19	1,811.69	2,581.76	867.37	780.90	86.47	10.031	
8,100.00	7,532.37	7,968.28	7,149.57	52.67	64.55	-48.04	1,823.27	2,598.07	873.92	788.87	85.05	10.275	
8,150.00	7,575.52	8,005.05	7,181.30	52.67	64.92	-54.13	1,834.04	2,613.23	881.49	798.04	83.44	10.564	
8,200.00	7,616.76	8,041.03	7,212.37	52.63	65.28	-58.93	1,844.42	2,628.09	890.33	808.59	81.73	10.893	
8,250.00	7,655.77	8,081.85	7,248.16	52.55	65.67	-62.97	1,854.04	2,645.19	900.44	820.30	80.14	11.236	
8,300.00	7,692.27	8,125.66	7,287.15	52.44	66.07	-66.36	1,861.20	2,663.81	911.76	833.05	78.71	11.584	
8,350.00	7,725.97	8,173.43	7,330.09	52.29	66.47	-69.29	1,865.22	2,684.30	924.20	846.73	77.48	11.929	
8,400.00	7,756.62	8,226.58	7,378.05	52.12	66.86	-71.95	1,865.02	2,707.18	937.66	861.19	76.47	12.261	
8,450.00	7,783.98	8,287.22	7,432.47	51.92	67.24	-74.49	1,858.78	2,733.11	951.93	876.24	75.70	12.576	
8,500.00	7,807.85	8,358.55	7,495.31	51.70	67.59	-77.08	1,843.34	2,763.03	966.74	891.61	75.13	12.868	
8,550.00	7,828.05	8,445.50	7,568.83	51.45	67.89	-79.87	1,813.03	2,797.99	981.62	906.87	74.75	13.132	
8,600.00	7,844.41	8,555.39	7,654.44	51.20	68.05	-82.97	1,757.73	2,838.64	995.84	921.21	74.63	13.344	
8,650.00	7,856.82	8,697.64	7,748.42	50.93	67.97	-86.25	1,661.20	2,883.14	1,008.19	933.06	75.13	13.419	
8,700.00	7,865.18	8,878.77	7,832.38	50.65	67.49	-89.02	1,506.53	2,922.66	1,016.85	939.48	77.37	13.142	
8,750.00	7,869.43	9,088.76	7,869.92	50.36	66.60	-90.01	1,301.83	2,939.87	1,019.82	937.44	82.38	12.380	
8,776.22	7,870.00	9,122.55	7,870.00	50.21	66.44	-90.00	1,268.04	2,939.79	1,019.64	937.24	82.40	12.374	
8,776.25	7,870.00	9,122.59	7,870.00	50.21	66.44	-90.00	1,268.01	2,939.79	1,019.64	937.24	82.40	12.374	
8,800.00	7,870.00	9,146.34	7,870.00	50.08	66.33	-90.00	1,244.26	2,939.71	1,019.64	937.49	82.15	12.413	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	9,246.34	7,870.00	49.53	65.88	-90.00	1,144.26	2,939.38	1,019.64	938.50	81.14	12.567	
9,000.00	7,870.00	9,346.34	7,870.00	49.01	65.46	-90.00	1,044.26	2,939.04	1,019.64	939.37	80.27	12.702	
9,100.00	7,870.00	9,446.34	7,870.00	48.52	65.05	-90.00	944.26	2,938.70	1,019.65	940.09	79.56	12.816	
9,200.00	7,870.00	9,546.34	7,870.00	48.06	64.67	-90.00	844.26	2,938.36	1,019.65	940.65	78.99	12.908	
9,300.00	7,870.00	9,646.34	7,870.00	47.63	64.31	-90.00	744.26	2,938.03	1,019.65	941.07	78.58	12.975	
9,400.00	7,870.00	9,746.34	7,870.00	47.22	63.97	-90.00	644.27	2,937.69	1,019.65	941.32	78.33	13.017	
9,500.00	7,870.00	9,846.34	7,870.00	46.83	63.66	-90.00	544.27	2,937.35	1,019.65	941.41	78.24	13.032	
9,600.00	7,870.00	9,946.34	7,870.00	46.48	63.36	-90.00	444.27	2,937.01	1,019.66	941.35	78.31	13.021	
9,700.00	7,870.00	10,046.34	7,870.00	46.14	63.09	-90.00	344.27	2,936.68	1,019.66	941.12	78.54	12.983	
9,800.00	7,870.00	10,146.34	7,870.00	45.83	62.84	-90.00	244.27	2,936.34	1,019.66	940.74	78.92	12.920	
9,900.00	7,870.00	10,246.34	7,870.00	45.54	62.61	-90.00	144.27	2,936.00	1,019.66	940.20	79.46	12.832	
10,000.00	7,870.00	10,346.34	7,870.00	45.27	62.41	-90.00	44.27	2,935.66	1,019.66	939.51	80.15	12.721	
10,100.00	7,870.00	10,446.34	7,870.00	45.03	62.23	-90.00	-55.73	2,935.32	1,019.67	938.67	81.00	12.589	
10,200.00	7,870.00	10,546.34	7,870.00	44.82	62.08	-90.00	-155.73	2,934.99	1,019.67	937.69	81.98	12.438	
10,300.00	7,870.00	10,646.34	7,870.00	44.66	61.95	-90.00	-255.73	2,934.65	1,019.67	936.56	83.10	12.270	
10,400.00	7,870.00	10,746.34	7,870.00	44.56	61.86	-90.00	-355.73	2,934.31	1,019.67	935.31	84.36	12.087	
10,500.00	7,870.00	10,846.34	7,870.00	44.58	61.80	-90.00	-455.73	2,933.97	1,019.67	933.93	85.75	11.892	
10,600.00	7,870.00	10,946.34	7,870.00	44.82	61.77	-90.00	-555.73	2,933.64	1,019.67	932.42	87.25	11.687	
10,700.00	7,870.00	11,046.34	7,870.00	45.36	61.78	-90.00	-655.73	2,933.30	1,019.68	930.80	88.87	11.473	
10,800.00	7,870.00	11,146.34	7,870.00	46.15	61.84	-90.00	-755.73	2,932.96	1,019.68	929.08	90.60	11.254	
10,900.00	7,870.00	11,246.34	7,870.00	47.09	61.95	-90.00	-855.73	2,932.62	1,019.68	927.25	92.44	11.031	
11,000.00	7,870.00	11,346.34	7,870.00	48.13	62.12	-90.00	-955.73	2,932.29	1,019.68	925.32	94.36	10.806	
11,100.00	7,870.00	11,446.34	7,870.00	49.22	62.34	-90.00	-1,055.73	2,931.95	1,019.68	923.30	96.38	10.579	
11,200.00	7,870.00	11,546.34	7,870.00	50.37	62.64	-90.00	-1,155.72	2,931.61	1,019.69	921.20	98.49	10.353	
11,300.00	7,870.00	11,646.34	7,870.00	51.55	63.02	-90.00	-1,255.72	2,931.27	1,019.69	919.01	100.68	10.128	
11,400.00	7,870.00	11,746.34	7,870.00	52.76	63.47	-90.00	-1,355.72	2,930.94	1,019.69	916.75	102.94	9.906	
11,500.00	7,870.00	11,846.34	7,870.00	54.00	64.01	-90.00	-1,455.72	2,930.60	1,019.69	914.43	105.27	9.687	
11,600.00	7,870.00	11,946.34	7,870.00	55.27	64.64	-90.00	-1,555.72	2,930.26	1,019.69	912.03	107.66	9.471	
11,700.00	7,870.00	12,046.34	7,870.00	56.56	65.35	-90.00	-1,655.72	2,929.92	1,019.70	909.58	110.12	9.260	
11,800.00	7,870.00	12,146.34	7,870.00	57.88	66.15	-90.00	-1,755.72	2,929.59	1,019.70	907.06	112.63	9.053	
11,900.00	7,870.00	12,246.34	7,870.00	59.21	67.02	-90.00	-1,855.72	2,929.25	1,019.70	904.50	115.20	8.851	
12,000.00	7,870.00	12,346.34	7,870.00	60.57	67.96	-90.00	-1,955.72	2,928.91	1,019.70	901.88	117.82	8.655	
12,100.00	7,870.00	12,446.34	7,870.00	61.94	68.96	-90.00	-2,055.72	2,928.57	1,019.70	899.22	120.49	8.463	
12,200.00	7,870.00	12,546.34	7,870.00	63.33	70.02	-90.00	-2,155.72	2,928.24	1,019.71	896.51	123.19	8.277	
12,300.00	7,870.00	12,646.34	7,870.00	64.74	71.13	-90.00	-2,255.72	2,927.90	1,019.71	893.76	125.94	8.097	
12,400.00	7,870.00	12,746.34	7,870.00	66.16	72.29	-90.00	-2,355.72	2,927.56	1,019.71	890.98	128.73	7.921	
12,500.00	7,870.00	12,846.34	7,870.00	67.59	73.48	-90.00	-2,455.72	2,927.22	1,019.71	888.16	131.56	7.751	
12,600.00	7,870.00	12,946.34	7,870.00	69.04	74.72	-90.00	-2,555.72	2,926.88	1,019.71	885.30	134.41	7.586	
12,700.00	7,870.00	13,046.34	7,870.00	70.51	75.98	-90.00	-2,655.72	2,926.55	1,019.72	882.41	137.30	7.427	
12,800.00	7,870.00	13,146.34	7,870.00	71.98	77.27	-90.00	-2,755.72	2,926.21	1,019.72	879.50	140.22	7.272	
12,900.00	7,870.00	13,246.34	7,870.00	73.47	78.59	-90.00	-2,855.72	2,925.87	1,019.72	876.55	143.17	7.123	
13,000.00	7,870.00	13,346.34	7,870.00	74.96	79.94	-90.00	-2,955.71	2,925.53	1,019.72	873.58	146.14	6.978	
13,100.00	7,870.00	13,446.34	7,870.00	76.47	81.30	-90.00	-3,055.71	2,925.20	1,019.72	870.59	149.14	6.838	
13,200.00	7,870.00	13,546.34	7,870.00	77.99	82.68	-90.00	-3,155.71	2,924.86	1,019.72	867.57	152.16	6.702	
13,300.00	7,870.00	13,646.34	7,870.00	79.51	84.08	-90.00	-3,255.71	2,924.52	1,019.73	864.53	155.20	6.571	
13,400.00	7,870.00	13,746.34	7,870.00	81.05	85.50	-90.00	-3,355.71	2,924.18	1,019.73	861.47	158.26	6.443	
13,500.00	7,870.00	13,846.34	7,870.00	82.59	86.93	-90.00	-3,455.71	2,923.85	1,019.73	858.39	161.34	6.320	
13,600.00	7,870.00	13,946.34	7,870.00	84.14	88.38	-90.00	-3,555.71	2,923.51	1,019.73	855.29	164.44	6.201	
13,700.00	7,870.00	14,046.34	7,870.00	85.70	89.84	-90.00	-3,655.71	2,923.17	1,019.73	852.18	167.56	6.086	
13,800.00	7,870.00	14,146.34	7,870.00	87.26	91.31	-90.00	-3,755.71	2,922.83	1,019.74	849.05	170.69	5.974	
13,900.00	7,870.00	14,246.34	7,870.00	88.83	92.79	-90.00	-3,855.71	2,922.50	1,019.74	845.90	173.84	5.866	
14,000.00	7,870.00	14,346.34	7,870.00	90.41	94.28	-90.00	-3,955.71	2,922.16	1,019.74	842.74	177.00	5.761	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	14,446.34	7,870.00	92.00	95.79	-90.00	-4,055.71	2,921.82	1,019.74	839.56	180.18	5.660	
14,200.00	7,870.00	14,546.34	7,870.00	93.59	97.30	-90.00	-4,155.71	2,921.48	1,019.74	836.38	183.37	5.561	
14,300.00	7,870.00	14,646.34	7,870.00	95.18	98.82	-90.00	-4,255.71	2,921.15	1,019.75	833.18	186.57	5.466	
14,400.00	7,870.00	14,746.34	7,870.00	96.79	100.35	-90.00	-4,355.71	2,920.81	1,019.75	829.96	189.78	5.373	
14,500.00	7,870.00	14,846.34	7,870.00	98.39	101.89	-90.00	-4,455.71	2,920.47	1,019.75	826.74	193.01	5.283	
14,600.00	7,870.00	14,946.34	7,870.00	100.00	103.43	-90.00	-4,555.71	2,920.13	1,019.75	823.51	196.25	5.196	
14,700.00	7,870.00	15,046.34	7,870.00	101.62	104.98	-90.00	-4,655.70	2,919.80	1,019.75	820.26	199.49	5.112	
14,800.00	7,870.00	15,146.34	7,870.00	103.24	106.54	-90.00	-4,755.70	2,919.46	1,019.76	817.01	202.75	5.030	
14,900.00	7,870.00	15,246.34	7,870.00	104.87	108.10	-90.00	-4,855.70	2,919.12	1,019.76	813.74	206.01	4.950	
15,000.00	7,870.00	15,346.34	7,870.00	106.50	109.68	-90.00	-4,955.70	2,918.78	1,019.76	810.47	209.29	4.873	
15,100.00	7,870.00	15,446.34	7,870.00	108.13	111.25	-90.00	-5,055.70	2,918.44	1,019.76	807.19	212.57	4.797	
15,200.00	7,870.00	15,546.34	7,870.00	109.77	112.83	-90.00	-5,155.70	2,918.11	1,019.76	803.90	215.86	4.724	
15,300.00	7,870.00	15,646.34	7,870.00	111.41	114.42	-90.00	-5,255.70	2,917.77	1,019.77	800.61	219.16	4.653	
15,400.00	7,870.00	15,746.34	7,870.00	113.05	116.01	-90.00	-5,355.70	2,917.43	1,019.77	797.31	222.46	4.584	
15,500.00	7,870.00	15,846.34	7,870.00	114.70	117.61	-90.00	-5,455.70	2,917.09	1,019.77	794.00	225.77	4.517	
15,600.00	7,870.00	15,946.34	7,870.00	116.35	119.21	-90.00	-5,555.70	2,916.76	1,019.77	790.68	229.09	4.451	
15,700.00	7,870.00	16,046.34	7,870.00	118.00	120.82	-90.00	-5,655.70	2,916.42	1,019.77	787.36	232.42	4.388	
15,800.00	7,870.00	16,146.34	7,870.00	119.66	122.43	-90.00	-5,755.70	2,916.08	1,019.77	784.03	235.75	4.326	
15,900.00	7,870.00	16,246.34	7,870.00	121.32	124.04	-90.00	-5,855.70	2,915.74	1,019.78	780.69	239.08	4.265	
16,000.00	7,870.00	16,346.34	7,870.00	122.98	125.66	-90.00	-5,955.70	2,915.41	1,019.78	777.35	242.43	4.207	
16,100.00	7,870.00	16,446.34	7,870.00	124.65	127.29	-90.00	-6,055.70	2,915.07	1,019.78	774.01	245.77	4.149	
16,200.00	7,870.00	16,546.34	7,870.00	126.32	128.91	-90.00	-6,155.70	2,914.73	1,019.78	770.65	249.13	4.093	
16,300.00	7,870.00	16,646.34	7,870.00	127.99	130.54	-90.00	-6,255.70	2,914.39	1,019.78	767.30	252.49	4.039	
16,400.00	7,870.00	16,746.34	7,870.00	129.66	132.17	-90.00	-6,355.70	2,914.06	1,019.79	763.94	255.85	3.986	
16,500.00	7,870.00	16,846.34	7,870.00	131.33	133.81	-90.00	-6,455.69	2,913.72	1,019.79	760.57	259.22	3.934	
16,600.00	7,870.00	16,946.34	7,870.00	133.01	135.45	-90.00	-6,555.69	2,913.38	1,019.79	757.20	262.59	3.884	
16,700.00	7,870.00	17,046.34	7,870.00	134.69	137.09	-90.00	-6,655.69	2,913.04	1,019.79	753.83	265.96	3.834	
16,800.00	7,870.00	17,146.34	7,870.00	136.37	138.74	-90.00	-6,755.69	2,912.71	1,019.79	750.45	269.34	3.786	
16,900.00	7,870.00	17,246.34	7,870.00	138.06	140.38	-90.00	-6,855.69	2,912.37	1,019.80	747.07	272.73	3.739	
17,000.00	7,870.00	17,346.34	7,870.00	139.74	142.04	-90.00	-6,955.69	2,912.03	1,019.80	743.68	276.11	3.693	
17,100.00	7,870.00	17,446.34	7,870.00	141.43	143.69	-90.00	-7,055.69	2,911.69	1,019.80	740.29	279.51	3.649	
17,200.00	7,870.00	17,546.34	7,870.00	143.12	145.34	-90.00	-7,155.69	2,911.36	1,019.80	736.90	282.90	3.605	
17,300.00	7,870.00	17,646.34	7,870.00	144.81	147.00	-90.00	-7,255.69	2,911.02	1,019.80	733.50	286.30	3.562	
17,400.00	7,870.00	17,746.34	7,870.00	146.50	148.66	-90.00	-7,355.69	2,910.68	1,019.81	730.11	289.70	3.520	
17,500.00	7,870.00	17,846.34	7,870.00	148.19	150.33	-90.00	-7,455.69	2,910.34	1,019.81	726.70	293.11	3.479	
17,600.00	7,870.00	17,946.34	7,870.00	149.89	151.99	-90.00	-7,555.69	2,910.00	1,019.81	723.30	296.51	3.439	
17,700.00	7,870.00	18,046.34	7,870.00	151.59	153.66	-90.00	-7,655.69	2,909.67	1,019.81	719.89	299.92	3.400	
17,800.00	7,870.00	18,146.34	7,870.00	153.29	155.33	-90.00	-7,755.69	2,909.33	1,019.81	716.48	303.34	3.362	
17,900.00	7,870.00	18,246.34	7,870.00	154.99	157.00	-90.00	-7,855.69	2,908.99	1,019.82	713.06	306.75	3.325	
18,000.00	7,870.00	18,346.34	7,870.00	156.69	158.67	-90.00	-7,955.69	2,908.65	1,019.82	709.65	310.17	3.288	
18,100.00	7,870.00	18,446.34	7,870.00	158.39	160.35	-90.00	-8,055.69	2,908.32	1,019.82	706.23	313.59	3.252	
18,200.00	7,870.00	18,546.34	7,870.00	160.09	162.02	-90.00	-8,155.69	2,907.98	1,019.82	702.80	317.02	3.217	
18,300.00	7,870.00	18,646.34	7,870.00	161.80	163.70	-90.00	-8,255.68	2,907.64	1,019.82	699.38	320.44	3.183	
18,400.00	7,870.00	18,746.34	7,870.00	163.51	165.38	-90.00	-8,355.68	2,907.30	1,019.82	695.95	323.87	3.149	
18,455.45	7,870.00	18,801.79	7,870.00	164.45	166.32	-90.00	-8,411.13	2,907.12	1,019.83	694.05	325.77	3.130	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.52	-0.36	39.76	39.76				
100.00	100.00	100.00	100.00	0.13	0.13	90.52	-0.36	39.76	39.76	39.49	0.27	147.895	
200.00	200.00	200.00	200.00	0.49	0.49	90.52	-0.36	39.76	39.76	38.78	0.99	40.335	
300.00	300.00	300.00	300.00	0.85	0.85	90.52	-0.36	39.76	39.76	38.06	1.70	23.352	
400.00	400.00	400.00	400.00	1.21	1.21	90.52	-0.36	39.76	39.76	37.34	2.42	16.433	
500.00	500.00	500.00	500.00	1.57	1.57	90.52	-0.36	39.76	39.76	36.63	3.14	12.677	
600.00	600.00	600.00	600.00	1.93	1.93	90.52	-0.36	39.76	39.76	35.91	3.85	10.318	
700.00	700.00	700.00	700.00	2.29	2.29	90.52	-0.36	39.76	39.76	35.19	4.57	8.700	
800.00	800.00	800.00	800.00	2.64	2.64	90.52	-0.36	39.76	39.76	34.47	5.29	7.520	
900.00	900.00	900.00	900.00	3.00	3.00	90.52	-0.36	39.76	39.76	33.76	6.00	6.622	CC, ES
1,000.00	1,000.00	998.82	998.80	3.36	3.35	89.22	0.56	41.19	41.21	34.50	6.71	6.141	
1,100.00	1,100.00	1,097.40	1,097.24	3.72	3.70	85.82	3.33	45.47	45.67	38.26	7.41	6.164	
1,200.00	1,200.00	1,195.51	1,194.99	4.08	4.05	81.45	7.90	52.55	53.38	45.28	8.10	6.590	
1,300.00	1,300.00	1,292.94	1,291.70	4.44	4.41	77.13	14.24	62.36	64.50	55.72	8.78	7.347	
1,400.00	1,399.98	1,389.72	1,387.33	4.79	4.78	30.97	22.30	74.83	77.62	68.18	9.44	8.220	
1,500.00	1,499.84	1,486.04	1,481.96	5.15	5.17	29.16	32.06	89.93	91.11	81.01	10.09	9.027	
1,600.00	1,599.45	1,581.91	1,575.49	5.51	5.57	28.25	43.49	107.60	104.83	94.09	10.73	9.765	
1,700.00	1,698.70	1,677.33	1,667.83	5.87	6.01	27.91	56.54	127.79	118.72	107.35	11.37	10.439	
1,800.00	1,797.47	1,772.30	1,758.88	6.24	6.47	27.97	71.17	150.43	132.75	120.74	12.01	11.056	
1,900.00	1,895.62	1,866.82	1,848.57	6.63	6.97	28.30	87.36	175.47	146.91	134.26	12.64	11.619	
2,000.00	1,993.06	1,960.89	1,936.80	7.04	7.50	28.83	105.06	202.85	161.19	147.90	13.29	12.131	
2,100.00	2,089.64	2,054.52	2,023.52	7.48	8.08	29.50	124.23	232.50	175.61	161.66	13.94	12.594	
2,200.00	2,185.27	2,147.71	2,108.63	7.94	8.70	30.28	144.82	264.36	190.15	175.54	14.62	13.008	
2,300.00	2,279.82	2,240.46	2,192.08	8.45	9.37	31.14	166.80	298.36	204.85	189.53	15.32	13.371	
2,400.00	2,373.17	2,332.79	2,273.80	8.99	10.09	32.06	190.12	334.44	219.69	203.63	16.06	13.680	
2,500.00	2,465.21	2,424.70	2,353.73	9.58	10.86	33.01	214.75	372.54	234.70	217.86	16.84	13.934	
2,574.08	2,532.50	2,492.52	2,411.75	10.04	11.46	33.74	233.80	402.02	245.93	228.47	17.46	14.085	
2,600.00	2,555.89	2,516.18	2,431.80	10.21	11.68	34.03	240.63	412.57	249.97	232.29	17.68	14.136	
2,700.00	2,646.16	2,607.90	2,508.53	10.88	12.55	34.91	267.91	454.78	267.44	248.86	18.58	14.392	
2,800.00	2,736.44	2,706.09	2,590.00	11.57	13.53	35.65	297.66	500.80	286.08	266.38	19.70	14.524	
2,900.00	2,826.71	2,804.27	2,671.48	12.27	14.53	36.30	327.40	546.81	304.75	283.91	20.84	14.620	
3,000.00	2,916.98	2,902.46	2,752.96	13.00	15.54	36.87	357.15	592.83	323.46	301.44	22.02	14.690	
3,100.00	3,007.25	3,000.65	2,834.43	13.73	16.57	37.38	386.89	638.84	342.19	318.98	23.22	14.738	
3,200.00	3,097.52	3,101.17	2,915.91	14.48	17.63	37.84	416.64	684.86	360.95	336.50	24.45	14.761	
3,300.00	3,187.80	3,202.98	2,997.38	15.23	18.71	38.25	446.38	730.88	379.73	354.02	25.72	14.767	
3,400.00	3,278.07	3,304.80	3,078.86	15.99	19.80	38.63	476.13	776.89	398.53	371.54	26.99	14.764	
3,500.00	3,368.34	3,406.61	3,160.33	16.76	20.90	38.97	505.87	822.91	417.34	389.05	28.29	14.754	
3,600.00	3,458.61	3,508.42	3,241.81	17.54	22.01	39.28	535.62	868.92	436.17	406.57	29.59	14.739	
3,700.00	3,548.89	3,589.76	3,323.28	18.32	22.89	39.56	565.36	914.94	455.00	424.23	30.78	14.784	
3,800.00	3,639.16	3,687.95	3,404.76	19.10	23.97	39.82	595.11	960.95	473.85	441.77	32.08	14.772	
3,900.00	3,729.43	3,786.13	3,486.24	19.89	25.04	40.06	624.85	1,006.97	492.70	459.31	33.39	14.756	
4,000.00	3,819.70	3,884.32	3,567.71	20.69	26.12	40.29	654.60	1,052.99	511.57	476.86	34.71	14.739	
4,100.00	3,909.98	3,982.51	3,649.19	21.48	27.21	40.50	684.34	1,099.00	530.44	494.40	36.03	14.720	
4,200.00	4,000.25	4,080.69	3,730.66	22.28	28.29	40.69	714.09	1,145.02	549.31	511.94	37.37	14.700	
4,300.00	4,090.52	4,178.88	3,812.14	23.08	29.38	40.87	743.83	1,191.03	568.19	529.49	38.71	14.680	
4,400.00	4,180.79	4,277.06	3,893.61	23.88	30.47	41.04	773.58	1,237.05	587.08	547.03	40.05	14.659	
4,500.00	4,271.06	4,375.25	3,975.09	24.69	31.56	41.20	803.32	1,283.06	605.97	564.57	41.40	14.638	
4,600.00	4,361.34	4,473.44	4,056.57	25.49	32.65	41.35	833.07	1,329.08	624.87	582.12	42.75	14.617	
4,700.00	4,451.61	4,571.62	4,138.04	26.30	33.74	41.49	862.81	1,375.09	643.77	599.66	44.11	14.596	
4,800.00	4,541.88	4,669.81	4,219.52	27.11	34.84	41.62	892.56	1,421.11	662.67	617.20	45.47	14.575	
4,900.00	4,632.15	4,767.99	4,300.99	27.92	35.93	41.75	922.30	1,467.13	681.57	634.74	46.83	14.554	
5,000.00	4,722.43	4,866.18	4,382.47	28.74	37.03	41.87	952.05	1,513.14	700.48	652.29	48.20	14.534	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,964.37	4,463.94	29.55	38.13	41.98	981.79	1,559.16	719.40	669.83	49.57	14.514	
5,200.00	4,902.97	5,062.55	4,545.42	30.37	39.23	42.08	1,011.54	1,605.17	738.31	687.37	50.94	14.494	
5,300.00	4,993.24	5,160.74	4,626.89	31.18	40.33	42.19	1,041.28	1,651.19	757.23	704.91	52.31	14.475	
5,400.00	5,083.51	5,258.92	4,708.37	32.00	41.43	42.28	1,071.03	1,697.20	776.14	722.46	53.69	14.456	
5,500.00	5,173.79	5,357.11	4,789.85	32.82	42.53	42.37	1,100.77	1,743.22	795.07	740.00	55.07	14.438	
5,600.00	5,264.06	5,455.30	4,871.32	33.63	43.63	42.46	1,130.52	1,789.24	813.99	757.54	56.45	14.420	
5,700.00	5,354.33	5,553.48	4,952.80	34.45	44.73	42.54	1,160.26	1,835.25	832.91	775.08	57.83	14.403	
5,800.00	5,444.60	5,651.67	5,034.27	35.27	45.83	42.62	1,190.01	1,881.27	851.84	792.62	59.22	14.385	
5,900.00	5,534.88	5,749.85	5,115.75	36.09	46.94	42.70	1,219.75	1,927.28	870.77	810.17	60.60	14.369	
6,000.00	5,625.15	5,848.04	5,197.22	36.91	48.04	42.77	1,249.50	1,973.30	889.70	827.71	61.99	14.353	
6,100.00	5,715.42	5,946.23	5,278.70	37.74	49.15	42.84	1,279.24	2,019.31	908.63	845.25	63.38	14.337	
6,200.00	5,805.69	6,044.41	5,360.17	38.56	50.25	42.91	1,308.99	2,065.33	927.56	862.79	64.77	14.322	
6,300.00	5,895.96	6,142.60	5,441.65	39.38	51.36	42.97	1,338.73	2,111.34	946.49	880.33	66.16	14.307	
6,400.00	5,986.24	6,240.78	5,523.13	40.20	52.46	43.04	1,368.48	2,157.36	965.42	897.87	67.55	14.292	
6,500.00	6,076.51	6,338.97	5,604.60	41.03	53.57	43.10	1,398.22	2,203.38	984.36	915.42	68.94	14.278	
6,600.00	6,166.78	6,437.16	5,686.08	41.85	54.67	43.15	1,427.97	2,249.39	1,003.29	932.96	70.34	14.264	
6,700.00	6,257.05	6,535.34	5,767.55	42.67	55.78	43.21	1,457.71	2,295.41	1,022.23	950.50	71.73	14.251	
6,800.00	6,347.33	6,633.53	5,849.03	43.50	56.89	43.26	1,487.46	2,341.42	1,041.17	968.04	73.13	14.238	
6,900.00	6,437.60	6,731.71	5,930.50	44.32	57.99	43.31	1,517.20	2,387.44	1,060.11	985.58	74.53	14.225	
7,000.00	6,527.87	6,829.90	6,011.98	45.15	59.10	43.36	1,546.95	2,433.45	1,079.05	1,003.12	75.92	14.212	
7,100.00	6,618.14	6,928.08	6,093.46	45.98	60.21	43.41	1,576.69	2,479.47	1,097.99	1,020.67	77.32	14.200	
7,200.00	6,708.41	7,026.27	6,174.93	46.80	61.31	43.46	1,606.44	2,525.49	1,116.93	1,038.21	78.72	14.188	
7,300.00	6,798.69	7,124.46	6,256.41	47.63	62.42	43.50	1,636.18	2,571.50	1,135.87	1,055.75	80.12	14.177	
7,400.00	6,888.96	7,222.64	6,337.88	48.45	63.53	43.54	1,665.93	2,617.52	1,154.81	1,073.29	81.52	14.166	
7,500.00	6,979.23	7,320.83	6,419.36	49.28	64.64	43.58	1,695.67	2,663.53	1,173.75	1,090.83	82.92	14.155	
7,600.00	7,069.50	7,419.01	6,500.83	50.11	65.75	43.63	1,725.42	2,709.55	1,192.70	1,108.37	84.32	14.144	
7,692.09	7,152.63	7,509.43	6,575.86	50.87	66.77	43.66	1,752.81	2,751.92	1,210.14	1,124.53	85.62	14.134	
7,700.00	7,159.79	7,517.20	6,582.31	50.93	66.85	42.60	1,755.16	2,755.56	1,211.64	1,125.92	85.72	14.134	
7,750.00	7,205.70	7,566.21	6,622.98	51.32	67.41	34.39	1,770.01	2,778.53	1,221.13	1,134.86	86.27	14.154	
7,800.00	7,252.52	7,614.82	6,663.32	51.66	67.96	23.29	1,784.74	2,801.31	1,230.61	1,144.03	86.59	14.213	
7,850.00	7,299.89	7,662.65	6,703.01	51.96	68.50	9.51	1,799.23	2,823.73	1,240.09	1,153.43	86.66	14.309	
7,900.00	7,347.44	7,709.34	6,741.75	52.20	69.02	-5.55	1,813.37	2,845.61	1,249.60	1,163.10	86.51	14.445	
7,950.00	7,394.83	7,754.54	6,779.26	52.39	69.53	-19.74	1,827.06	2,866.79	1,259.22	1,173.09	86.13	14.621	
8,000.00	7,441.68	7,797.90	6,815.23	52.53	70.02	-31.55	1,840.20	2,887.11	1,269.05	1,183.51	85.53	14.837	
8,050.00	7,487.65	7,840.91	6,851.08	52.62	70.50	-40.74	1,852.64	2,907.36	1,279.19	1,194.40	84.79	15.086	
8,100.00	7,532.37	7,886.22	6,889.57	52.67	70.99	-47.72	1,862.60	2,929.08	1,289.63	1,205.58	84.04	15.345	
8,150.00	7,575.52	7,933.84	6,930.62	52.67	71.47	-53.03	1,869.28	2,952.24	1,300.30	1,216.97	83.32	15.606	
8,200.00	7,616.76	7,984.23	6,974.43	52.63	71.94	-57.15	1,872.05	2,976.94	1,311.12	1,228.46	82.66	15.862	
8,250.00	7,655.77	8,037.93	7,021.17	52.55	72.39	-60.40	1,870.14	3,003.27	1,322.01	1,239.93	82.07	16.108	
8,300.00	7,692.27	8,095.62	7,070.98	52.44	72.81	-63.05	1,862.50	3,031.31	1,332.84	1,251.24	81.60	16.334	
8,350.00	7,725.97	8,158.08	7,123.85	52.29	73.19	-65.27	1,847.80	3,061.06	1,343.49	1,262.24	81.26	16.534	
8,400.00	7,756.62	8,226.22	7,179.58	52.12	73.50	-67.17	1,824.34	3,092.39	1,353.79	1,272.73	81.07	16.700	
8,450.00	7,783.98	8,301.00	7,237.49	51.92	73.75	-68.83	1,790.07	3,124.90	1,363.54	1,282.49	81.05	16.823	
8,500.00	7,807.85	8,383.36	7,296.17	51.70	73.88	-70.30	1,742.69	3,157.81	1,372.49	1,291.26	81.23	16.895	
8,550.00	7,828.05	8,473.95	7,353.16	51.45	73.90	-71.57	1,680.05	3,189.72	1,380.37	1,298.71	81.65	16.905	
8,600.00	7,844.41	8,572.81	7,404.71	51.20	73.77	-72.62	1,600.91	3,218.50	1,386.85	1,304.51	82.34	16.842	
8,650.00	7,856.82	8,678.96	7,446.02	50.93	73.50	-73.37	1,506.03	3,241.45	1,391.65	1,308.32	83.33	16.701	
8,700.00	7,865.18	8,790.12	7,472.19	50.65	73.11	-73.76	1,399.14	3,255.84	1,394.50	1,309.93	84.57	16.489	
8,750.00	7,869.43	8,903.38	7,480.00	50.36	72.63	-73.77	1,293.15	3,259.88	1,395.27	1,309.54	85.74	16.274	
8,776.15	7,870.00	8,922.77	7,480.00	50.21	72.54	-73.77	1,267.01	3,259.79	1,395.26	1,309.70	85.56	16.308	
8,776.25	7,870.00	8,922.86	7,480.00	50.21	72.54	-73.77	1,266.91	3,259.79	1,395.26	1,309.70	85.56	16.308	
8,800.00	7,870.00	8,946.61	7,480.00	50.08	72.44	-73.77	1,243.16	3,259.71	1,395.26	1,309.88	85.37	16.343	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	9,046.61	7,480.00	49.53	72.02	-73.77	1,143.16	3,259.37	1,395.26	1,310.57	84.68	16.476	
9,000.00	7,870.00	9,146.61	7,480.00	49.01	71.62	-73.77	1,043.16	3,259.04	1,395.26	1,311.13	84.13	16.585	
9,100.00	7,870.00	9,246.61	7,480.00	48.52	71.23	-73.77	943.16	3,258.70	1,395.26	1,311.55	83.71	16.668	
9,200.00	7,870.00	9,346.61	7,480.00	48.06	70.87	-73.77	843.16	3,258.36	1,395.26	1,311.83	83.43	16.724	
9,300.00	7,870.00	9,446.61	7,480.00	47.63	70.53	-73.77	743.17	3,258.02	1,395.26	1,311.97	83.29	16.752	
9,400.00	7,870.00	9,546.61	7,480.00	47.22	70.21	-73.77	643.17	3,257.68	1,395.26	1,311.97	83.29	16.752	
9,500.00	7,870.00	9,646.61	7,480.00	46.83	69.91	-73.77	543.17	3,257.34	1,395.26	1,311.83	83.43	16.723	
9,600.00	7,870.00	9,746.61	7,480.00	46.48	69.63	-73.77	443.17	3,257.00	1,395.26	1,311.55	83.71	16.667	
9,700.00	7,870.00	9,846.61	7,480.00	46.14	69.36	-73.77	343.17	3,256.66	1,395.26	1,311.13	84.13	16.584	
9,800.00	7,870.00	9,946.61	7,480.00	45.83	69.12	-73.77	243.17	3,256.32	1,395.26	1,310.57	84.69	16.474	
9,900.00	7,870.00	10,046.61	7,480.00	45.54	68.90	-73.77	143.17	3,255.98	1,395.26	1,309.88	85.38	16.341	
10,000.00	7,870.00	10,146.61	7,480.00	45.27	68.70	-73.77	43.17	3,255.65	1,395.26	1,309.06	86.21	16.185	
10,100.00	7,870.00	10,246.61	7,480.00	45.03	68.52	-73.77	-56.83	3,255.31	1,395.26	1,308.11	87.16	16.009	
10,200.00	7,870.00	10,346.61	7,480.00	44.82	68.36	-73.77	-156.83	3,254.97	1,395.26	1,307.04	88.23	15.814	
10,300.00	7,870.00	10,446.61	7,480.00	44.66	68.23	-73.77	-256.83	3,254.63	1,395.26	1,305.85	89.42	15.604	
10,400.00	7,870.00	10,546.61	7,480.00	44.56	68.12	-73.77	-356.83	3,254.29	1,395.26	1,304.54	90.72	15.379	
10,500.00	7,870.00	10,646.61	7,480.00	44.58	68.03	-73.77	-456.83	3,253.95	1,395.27	1,303.13	92.14	15.144	
10,600.00	7,870.00	10,746.61	7,480.00	44.82	67.98	-73.77	-556.83	3,253.61	1,395.27	1,301.61	93.65	14.898	
10,700.00	7,870.00	10,846.61	7,480.00	45.36	67.96	-73.77	-656.83	3,253.27	1,395.27	1,300.00	95.27	14.646	
10,800.00	7,870.00	10,946.61	7,480.00	46.15	67.96	-73.77	-756.83	3,252.93	1,395.27	1,298.29	96.98	14.387	
10,900.00	7,870.00	11,046.61	7,480.00	47.09	68.01	-73.77	-856.83	3,252.59	1,395.27	1,296.49	98.78	14.125	
11,000.00	7,870.00	11,146.61	7,480.00	48.13	68.09	-73.77	-956.82	3,252.26	1,395.27	1,294.61	100.66	13.861	
11,100.00	7,870.00	11,246.61	7,480.00	49.22	68.21	-73.77	-1,056.82	3,251.92	1,395.27	1,292.65	102.62	13.596	
11,200.00	7,870.00	11,346.61	7,480.00	50.37	68.38	-73.77	-1,156.82	3,251.58	1,395.27	1,290.61	104.66	13.331	
11,300.00	7,870.00	11,446.61	7,480.00	51.55	68.61	-73.77	-1,256.82	3,251.24	1,395.27	1,288.50	106.77	13.068	
11,400.00	7,870.00	11,546.61	7,480.00	52.76	68.89	-73.77	-1,356.82	3,250.90	1,395.27	1,286.33	108.94	12.807	
11,500.00	7,870.00	11,646.61	7,480.00	54.00	69.23	-73.77	-1,456.82	3,250.56	1,395.27	1,284.09	111.18	12.549	
11,600.00	7,870.00	11,746.61	7,480.00	55.27	69.63	-73.77	-1,556.82	3,250.22	1,395.27	1,281.79	113.48	12.295	
11,700.00	7,870.00	11,846.61	7,480.00	56.56	70.10	-73.77	-1,656.82	3,249.88	1,395.27	1,279.44	115.83	12.046	
11,800.00	7,870.00	11,946.61	7,480.00	57.88	70.65	-73.77	-1,756.82	3,249.54	1,395.27	1,277.04	118.24	11.801	
11,900.00	7,870.00	12,046.61	7,480.00	59.21	71.26	-73.77	-1,856.82	3,249.20	1,395.27	1,274.58	120.69	11.561	
12,000.00	7,870.00	12,146.61	7,480.00	60.57	71.95	-73.77	-1,956.82	3,248.87	1,395.27	1,272.08	123.19	11.326	
12,100.00	7,870.00	12,246.61	7,480.00	61.94	72.71	-73.77	-2,056.82	3,248.53	1,395.27	1,269.54	125.73	11.097	
12,200.00	7,870.00	12,346.61	7,480.00	63.33	73.54	-73.77	-2,156.82	3,248.19	1,395.27	1,266.96	128.32	10.874	
12,300.00	7,870.00	12,446.61	7,480.00	64.74	74.43	-73.77	-2,256.82	3,247.85	1,395.27	1,264.34	130.94	10.656	
12,400.00	7,870.00	12,546.61	7,480.00	66.16	75.38	-73.77	-2,356.82	3,247.51	1,395.28	1,261.68	133.60	10.444	
12,500.00	7,870.00	12,646.61	7,480.00	67.59	76.39	-73.77	-2,456.82	3,247.17	1,395.28	1,258.99	136.29	10.238	
12,600.00	7,870.00	12,746.61	7,480.00	69.04	77.45	-73.77	-2,556.82	3,246.83	1,395.28	1,256.26	139.02	10.037	
12,700.00	7,870.00	12,846.61	7,480.00	70.51	78.56	-73.77	-2,656.81	3,246.49	1,395.28	1,253.51	141.77	9.842	
12,800.00	7,870.00	12,946.61	7,480.00	71.98	79.72	-73.77	-2,756.81	3,246.15	1,395.28	1,250.72	144.55	9.652	
12,900.00	7,870.00	13,046.61	7,480.00	73.47	80.91	-73.77	-2,856.81	3,245.82	1,395.28	1,247.91	147.36	9.468	
13,000.00	7,870.00	13,146.61	7,480.00	74.96	82.13	-73.77	-2,956.81	3,245.48	1,395.28	1,245.08	150.20	9.290	
13,100.00	7,870.00	13,246.61	7,480.00	76.47	83.39	-73.77	-3,056.81	3,245.14	1,395.28	1,242.22	153.06	9.116	
13,200.00	7,870.00	13,346.61	7,480.00	77.99	84.68	-73.77	-3,156.81	3,244.80	1,395.28	1,239.34	155.94	8.947	
13,300.00	7,870.00	13,446.61	7,480.00	79.51	85.99	-73.77	-3,256.81	3,244.46	1,395.28	1,236.44	158.84	8.784	
13,400.00	7,870.00	13,546.61	7,480.00	81.05	87.33	-73.77	-3,356.81	3,244.12	1,395.28	1,233.51	161.77	8.625	
13,500.00	7,870.00	13,646.61	7,480.00	82.59	88.69	-73.77	-3,456.81	3,243.78	1,395.28	1,230.57	164.71	8.471	
13,600.00	7,870.00	13,746.61	7,480.00	84.14	90.07	-73.77	-3,556.81	3,243.44	1,395.28	1,227.61	167.67	8.321	
13,700.00	7,870.00	13,846.61	7,480.00	85.70	91.47	-73.77	-3,656.81	3,243.10	1,395.28	1,224.63	170.65	8.176	
13,800.00	7,870.00	13,946.61	7,480.00	87.26	92.88	-73.77	-3,756.81	3,242.76	1,395.28	1,221.64	173.65	8.035	
13,900.00	7,870.00	14,046.61	7,480.00	88.83	94.31	-73.77	-3,856.81	3,242.43	1,395.28	1,218.63	176.66	7.898	
14,000.00	7,870.00	14,146.61	7,480.00	90.41	95.75	-73.77	-3,956.81	3,242.09	1,395.28	1,215.60	179.68	7.765	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	14,246.61	7,480.00	92.00	97.21	-73.77	-4,056.81	3,241.75	1,395.28	1,212.56	182.72	7.636	
14,200.00	7,870.00	14,346.61	7,480.00	93.59	98.68	-73.77	-4,156.81	3,241.41	1,395.28	1,209.51	185.77	7.511	
14,300.00	7,870.00	14,446.61	7,480.00	95.18	100.16	-73.77	-4,256.81	3,241.07	1,395.29	1,206.45	188.84	7.389	
14,400.00	7,870.00	14,546.61	7,480.00	96.79	101.65	-73.77	-4,356.81	3,240.73	1,395.29	1,203.37	191.91	7.270	
14,500.00	7,870.00	14,646.61	7,480.00	98.39	103.16	-73.77	-4,456.80	3,240.39	1,395.29	1,200.28	195.00	7.155	
14,600.00	7,870.00	14,746.61	7,480.00	100.00	104.67	-73.77	-4,556.80	3,240.05	1,395.29	1,197.18	198.10	7.043	
14,700.00	7,870.00	14,846.61	7,480.00	101.62	106.19	-73.77	-4,656.80	3,239.71	1,395.29	1,194.07	201.21	6.934	
14,800.00	7,870.00	14,946.61	7,480.00	103.24	107.72	-73.77	-4,756.80	3,239.37	1,395.29	1,190.95	204.33	6.828	
14,900.00	7,870.00	15,046.61	7,480.00	104.87	109.25	-73.77	-4,856.80	3,239.04	1,395.29	1,187.83	207.46	6.725	
15,000.00	7,870.00	15,146.61	7,480.00	106.50	110.80	-73.77	-4,956.80	3,238.70	1,395.29	1,184.69	210.60	6.625	
15,100.00	7,870.00	15,246.61	7,480.00	108.13	112.35	-73.77	-5,056.80	3,238.36	1,395.29	1,181.54	213.75	6.528	
15,200.00	7,870.00	15,346.61	7,480.00	109.77	113.91	-73.77	-5,156.80	3,238.02	1,395.29	1,178.39	216.90	6.433	
15,300.00	7,870.00	15,446.61	7,480.00	111.41	115.47	-73.77	-5,256.80	3,237.68	1,395.29	1,175.22	220.07	6.340	
15,400.00	7,870.00	15,546.61	7,480.00	113.05	117.04	-73.77	-5,356.80	3,237.34	1,395.29	1,172.05	223.24	6.250	
15,500.00	7,870.00	15,646.61	7,480.00	114.70	118.62	-73.77	-5,456.80	3,237.00	1,395.29	1,168.87	226.42	6.162	
15,600.00	7,870.00	15,746.61	7,480.00	116.35	120.20	-73.77	-5,556.80	3,236.66	1,395.29	1,165.69	229.60	6.077	
15,700.00	7,870.00	15,846.61	7,480.00	118.00	121.79	-73.77	-5,656.80	3,236.32	1,395.29	1,162.50	232.80	5.994	
15,800.00	7,870.00	15,946.61	7,480.00	119.66	123.38	-73.77	-5,756.80	3,235.98	1,395.29	1,159.30	235.99	5.912	
15,900.00	7,870.00	16,046.61	7,480.00	121.32	124.98	-73.77	-5,856.80	3,235.65	1,395.29	1,156.09	239.20	5.833	
16,000.00	7,870.00	16,146.61	7,480.00	122.98	126.58	-73.77	-5,956.80	3,235.31	1,395.29	1,152.88	242.41	5.756	
16,100.00	7,870.00	16,246.61	7,480.00	124.65	128.18	-73.77	-6,056.80	3,234.97	1,395.29	1,149.67	245.63	5.681	
16,200.00	7,870.00	16,346.61	7,480.00	126.32	129.79	-73.77	-6,156.79	3,234.63	1,395.29	1,146.45	248.85	5.607	
16,300.00	7,870.00	16,446.61	7,480.00	127.99	131.41	-73.77	-6,256.79	3,234.29	1,395.30	1,143.22	252.08	5.535	
16,400.00	7,870.00	16,546.61	7,480.00	129.66	133.02	-73.77	-6,356.79	3,233.95	1,395.30	1,139.99	255.31	5.465	
16,500.00	7,870.00	16,646.61	7,480.00	131.33	134.65	-73.77	-6,456.79	3,233.61	1,395.30	1,136.75	258.55	5.397	
16,600.00	7,870.00	16,746.61	7,480.00	133.01	136.27	-73.77	-6,556.79	3,233.27	1,395.30	1,133.51	261.79	5.330	
16,700.00	7,870.00	16,846.61	7,480.00	134.69	137.90	-73.77	-6,656.79	3,232.93	1,395.30	1,130.26	265.03	5.265	
16,800.00	7,870.00	16,946.61	7,480.00	136.37	139.53	-73.77	-6,756.79	3,232.59	1,395.30	1,127.01	268.29	5.201	
16,900.00	7,870.00	17,046.61	7,480.00	138.06	141.17	-73.77	-6,856.79	3,232.26	1,395.30	1,123.76	271.54	5.138	
17,000.00	7,870.00	17,146.61	7,480.00	139.74	142.80	-73.77	-6,956.79	3,231.92	1,395.30	1,120.50	274.80	5.078	
17,100.00	7,870.00	17,246.61	7,480.00	141.43	144.44	-73.77	-7,056.79	3,231.58	1,395.30	1,117.24	278.06	5.018	
17,200.00	7,870.00	17,346.61	7,480.00	143.12	146.09	-73.77	-7,156.79	3,231.24	1,395.30	1,113.97	281.33	4.960	
17,300.00	7,870.00	17,446.61	7,480.00	144.81	147.74	-73.77	-7,256.79	3,230.90	1,395.30	1,110.70	284.60	4.903	
17,400.00	7,870.00	17,546.61	7,480.00	146.50	149.38	-73.77	-7,356.79	3,230.56	1,395.30	1,107.43	287.87	4.847	
17,500.00	7,870.00	17,646.61	7,480.00	148.19	151.04	-73.77	-7,456.79	3,230.22	1,395.30	1,104.15	291.15	4.792	
17,600.00	7,870.00	17,746.61	7,480.00	149.89	152.69	-73.77	-7,556.79	3,229.88	1,395.30	1,100.87	294.43	4.739	
17,700.00	7,870.00	17,846.61	7,480.00	151.59	154.35	-73.77	-7,656.79	3,229.54	1,395.30	1,097.59	297.72	4.687	
17,800.00	7,870.00	17,946.61	7,480.00	153.29	156.01	-73.77	-7,756.79	3,229.20	1,395.30	1,094.30	301.00	4.635	
17,900.00	7,870.00	18,046.61	7,480.00	154.99	157.67	-73.77	-7,856.79	3,228.87	1,395.30	1,091.01	304.29	4.585	
18,000.00	7,870.00	18,146.61	7,480.00	156.69	159.33	-73.77	-7,956.78	3,228.53	1,395.30	1,087.72	307.59	4.536	
18,100.00	7,870.00	18,246.61	7,480.00	158.39	161.00	-73.77	-8,056.78	3,228.19	1,395.30	1,084.42	310.88	4.488	
18,200.00	7,870.00	18,346.61	7,480.00	160.09	162.66	-73.77	-8,156.78	3,227.85	1,395.31	1,081.12	314.18	4.441	
18,300.00	7,870.00	18,446.61	7,480.00	161.80	164.33	-73.77	-8,256.78	3,227.51	1,395.31	1,077.82	317.48	4.395	
18,400.00	7,870.00	18,546.61	7,480.00	163.51	166.01	-73.77	-8,356.78	3,227.17	1,395.31	1,074.52	320.79	4.350	
18,455.45	7,870.00	18,602.06	7,480.00	164.45	166.93	-73.77	-8,412.23	3,226.98	1,395.31	1,072.69	322.62	4.325	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	90.42	-0.36	49.84	49.84				
100.00	100.00	101.00	99.00	0.13	0.14	90.42	-0.36	49.84	49.84	49.57	0.27	182.947	
200.00	200.00	201.00	199.00	0.49	0.50	90.42	-0.36	49.84	49.84	48.85	0.99	50.377	
300.00	300.00	301.00	299.00	0.85	0.85	90.42	-0.36	49.84	49.84	48.14	1.71	29.210	
400.00	400.00	401.00	399.00	1.21	1.21	90.42	-0.36	49.84	49.84	47.42	2.42	20.568	
500.00	500.00	501.00	499.00	1.57	1.57	90.42	-0.36	49.84	49.84	46.70	3.14	15.872	
600.00	600.00	601.00	599.00	1.93	1.93	90.42	-0.36	49.84	49.84	45.98	3.86	12.922	
700.00	700.00	701.00	699.00	2.29	2.29	90.42	-0.36	49.84	49.84	45.27	4.57	10.897	
800.00	800.00	799.00	799.00	2.64	2.64	90.42	-0.36	49.84	49.84	44.56	5.28	9.433	CC, ES
900.00	900.00	897.51	897.49	3.00	2.99	89.47	0.48	51.27	51.30	45.31	5.99	8.564	
1,000.00	1,000.00	995.77	995.61	3.36	3.34	86.89	3.02	55.61	55.79	49.10	6.69	8.342	
1,100.00	1,100.00	1,093.57	1,093.05	3.72	3.69	83.42	7.24	62.80	63.50	56.12	7.38	8.605	
1,200.00	1,200.00	1,190.69	1,189.48	4.08	4.05	79.80	13.10	72.78	74.56	66.50	8.06	9.249	
1,300.00	1,300.00	1,286.91	1,284.57	4.44	4.42	76.49	20.53	85.44	89.05	80.32	8.73	10.198	
1,400.00	1,399.98	1,382.35	1,378.34	4.79	4.80	31.04	29.50	100.71	105.48	96.10	9.39	11.238	
1,500.00	1,499.84	1,477.23	1,470.94	5.15	5.21	29.62	39.97	118.55	122.24	112.22	10.02	12.194	
1,600.00	1,599.45	1,571.57	1,562.28	5.51	5.64	28.91	51.92	138.91	139.22	128.56	10.66	13.059	
1,700.00	1,698.70	1,665.37	1,652.27	5.87	6.10	28.67	65.30	161.70	156.35	145.06	11.29	13.847	
1,800.00	1,797.47	1,758.62	1,740.83	6.24	6.60	28.75	80.08	186.87	173.60	161.68	11.92	14.564	
1,900.00	1,895.62	1,851.34	1,827.90	6.63	7.14	29.07	96.21	214.35	190.97	178.42	12.55	15.215	
2,000.00	1,993.06	1,943.52	1,913.40	7.04	7.71	29.56	113.65	244.06	208.45	195.26	13.19	15.804	
2,100.00	2,089.64	2,035.18	1,997.26	7.48	8.33	30.17	132.36	275.94	226.05	212.21	13.84	16.331	
2,200.00	2,185.27	2,126.31	2,079.43	7.94	8.99	30.88	152.30	309.92	243.77	229.25	14.51	16.796	
2,300.00	2,279.82	2,216.92	2,159.85	8.45	9.70	31.65	173.44	345.92	261.61	246.40	15.21	17.198	
2,400.00	2,373.17	2,307.02	2,238.47	8.99	10.46	32.48	195.72	383.87	279.59	263.64	15.95	17.533	
2,500.00	2,465.21	2,396.63	2,315.25	9.58	11.27	33.34	219.10	423.71	297.71	280.99	16.73	17.798	
2,574.08	2,532.50	2,462.69	2,370.91	10.04	11.90	34.00	237.12	454.40	311.24	293.90	17.34	17.946	
2,600.00	2,555.89	2,485.73	2,390.12	10.21	12.13	34.27	243.55	465.36	316.09	298.52	17.56	17.998	
2,700.00	2,646.16	2,581.64	2,469.58	10.88	13.09	35.28	270.74	511.68	335.77	317.15	18.61	18.039	
2,800.00	2,736.44	2,679.50	2,550.62	11.57	14.11	36.20	298.51	558.98	355.61	335.86	19.75	18.004	
2,900.00	2,826.71	2,777.36	2,631.66	12.27	15.13	37.02	326.28	606.29	375.53	354.60	20.93	17.946	
3,000.00	2,916.98	2,875.22	2,712.71	13.00	16.17	37.75	354.05	653.59	395.51	373.38	22.13	17.873	
3,100.00	3,007.25	2,973.09	2,793.75	13.73	17.23	38.42	381.82	700.90	415.55	392.19	23.36	17.790	
3,200.00	3,097.52	3,070.95	2,874.80	14.48	18.29	39.02	409.59	748.21	435.64	411.03	24.61	17.700	
3,300.00	3,187.80	3,168.81	2,955.84	15.23	19.35	39.57	437.36	795.51	455.77	429.88	25.89	17.606	
3,400.00	3,278.07	3,266.67	3,036.88	15.99	20.43	40.07	465.13	842.82	475.94	448.76	27.18	17.511	
3,500.00	3,368.34	3,364.54	3,117.93	16.76	21.50	40.54	492.90	890.12	496.14	467.65	28.49	17.416	
3,600.00	3,458.61	3,462.40	3,198.97	17.54	22.59	40.96	520.67	937.43	516.37	486.56	29.81	17.322	
3,700.00	3,548.89	3,560.26	3,280.01	18.32	23.67	41.36	548.43	984.74	536.63	505.48	31.15	17.229	
3,800.00	3,639.16	3,658.12	3,361.06	19.10	24.76	41.72	576.20	1,032.04	556.90	524.41	32.49	17.139	
3,900.00	3,729.43	3,755.99	3,442.10	19.89	25.86	42.06	603.97	1,079.35	577.20	543.35	33.85	17.052	
4,000.00	3,819.70	3,853.85	3,523.15	20.69	26.95	42.38	631.74	1,126.66	597.52	562.30	35.22	16.967	
4,100.00	3,909.98	3,951.71	3,604.19	21.48	28.05	42.68	659.51	1,173.96	617.85	581.26	36.59	16.886	
4,200.00	4,000.25	4,049.58	3,685.23	22.28	29.15	42.95	687.28	1,221.27	638.20	600.23	37.97	16.807	
4,300.00	4,090.52	4,147.44	3,766.28	23.08	30.25	43.21	715.05	1,268.57	658.56	619.20	39.36	16.731	
4,400.00	4,180.79	4,245.30	3,847.32	23.88	31.36	43.46	742.82	1,315.88	678.93	638.18	40.76	16.659	
4,500.00	4,271.06	4,343.16	3,928.36	24.69	32.46	43.69	770.59	1,363.19	699.32	657.16	42.16	16.589	
4,600.00	4,361.34	4,441.03	4,009.41	25.49	33.57	43.91	798.36	1,410.49	719.71	676.15	43.56	16.522	
4,700.00	4,451.61	4,538.89	4,090.45	26.30	34.68	44.11	826.13	1,457.80	740.12	695.15	44.97	16.458	
4,800.00	4,541.88	4,636.75	4,171.50	27.11	35.79	44.31	853.90	1,505.10	760.53	714.15	46.38	16.396	
4,900.00	4,632.15	4,734.61	4,252.54	27.92	36.90	44.49	881.67	1,552.41	780.95	733.15	47.80	16.337	
5,000.00	4,722.43	4,832.48	4,333.58	28.74	38.01	44.67	909.44	1,599.72	801.38	752.16	49.22	16.280	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,930.34	4,414.63	29.55	39.12	44.83	937.21	1,647.02	821.81	771.17	50.65	16.226	
5,200.00	4,902.97	5,028.20	4,495.67	30.37	40.23	44.99	964.98	1,694.33	842.26	790.18	52.08	16.174	
5,300.00	4,993.24	5,126.06	4,576.72	31.18	41.34	45.14	992.75	1,741.63	862.70	809.20	53.51	16.123	
5,400.00	5,083.51	5,223.93	4,657.76	32.00	42.46	45.28	1,020.51	1,788.94	883.15	828.21	54.94	16.075	
5,500.00	5,173.79	5,321.79	4,738.80	32.82	43.57	45.42	1,048.28	1,836.25	903.61	847.24	56.38	16.028	
5,600.00	5,264.06	5,419.65	4,819.85	33.63	44.69	45.55	1,076.05	1,883.55	924.07	866.26	57.81	15.984	
5,700.00	5,354.33	5,517.52	4,900.89	34.45	45.80	45.68	1,103.82	1,930.86	944.54	885.29	59.25	15.940	
5,800.00	5,444.60	5,615.38	4,981.93	35.27	46.92	45.80	1,131.59	1,978.16	965.01	904.32	60.70	15.899	
5,900.00	5,534.88	5,713.24	5,062.98	36.09	48.03	45.91	1,159.36	2,025.47	985.49	923.35	62.14	15.859	
6,000.00	5,625.15	5,811.10	5,144.02	36.91	49.15	46.02	1,187.13	2,072.78	1,005.97	942.38	63.59	15.820	
6,100.00	5,715.42	5,908.97	5,225.07	37.74	50.26	46.13	1,214.90	2,120.08	1,026.45	961.41	65.03	15.783	
6,200.00	5,805.69	6,006.83	5,306.11	38.56	51.38	46.23	1,242.67	2,167.39	1,046.93	980.45	66.48	15.747	
6,300.00	5,895.96	6,104.69	5,387.15	39.38	52.50	46.33	1,270.44	2,214.70	1,067.42	999.49	67.93	15.713	
6,400.00	5,986.24	6,202.55	5,468.20	40.20	53.62	46.42	1,298.21	2,262.00	1,087.91	1,018.53	69.38	15.679	
6,500.00	6,076.51	6,300.42	5,549.24	41.03	54.74	46.51	1,325.98	2,309.31	1,108.41	1,037.57	70.84	15.647	
6,600.00	6,166.78	6,401.72	5,630.28	41.85	55.89	46.60	1,353.75	2,356.61	1,128.90	1,056.58	72.32	15.610	
6,700.00	6,257.05	6,503.86	5,711.33	42.67	57.06	46.69	1,381.52	2,403.92	1,149.40	1,075.60	73.81	15.573	
6,800.00	6,347.33	6,606.00	5,792.37	43.50	58.23	46.77	1,409.29	2,451.23	1,169.90	1,094.61	75.29	15.538	
6,900.00	6,437.60	6,708.13	5,873.42	44.32	59.40	46.85	1,437.06	2,498.53	1,190.41	1,113.62	76.78	15.503	
7,000.00	6,527.87	6,789.73	5,954.46	45.15	60.33	46.92	1,464.83	2,545.84	1,210.91	1,132.79	78.12	15.501	
7,100.00	6,618.14	6,887.59	6,035.50	45.98	61.45	47.00	1,492.60	2,593.14	1,231.42	1,151.84	79.58	15.474	
7,200.00	6,708.41	6,985.46	6,116.55	46.80	62.57	47.07	1,520.36	2,640.45	1,251.93	1,170.89	81.04	15.448	
7,300.00	6,798.69	7,083.32	6,197.59	47.63	63.69	47.14	1,548.13	2,687.76	1,272.44	1,189.94	82.50	15.423	
7,400.00	6,888.96	7,181.18	6,278.64	48.45	64.81	47.20	1,575.90	2,735.06	1,292.95	1,208.99	83.96	15.399	
7,500.00	6,979.23	7,279.04	6,359.68	49.28	65.93	47.27	1,603.67	2,782.37	1,313.47	1,228.04	85.43	15.376	
7,600.00	7,069.50	7,376.91	6,440.72	50.11	67.05	47.33	1,631.44	2,829.67	1,333.98	1,247.09	86.89	15.353	
7,692.09	7,152.63	7,467.02	6,515.35	50.87	68.08	47.38	1,657.01	2,873.24	1,352.87	1,264.64	88.24	15.332	
7,700.00	7,159.79	7,474.77	6,521.77	50.93	68.17	46.34	1,659.21	2,876.98	1,354.50	1,266.15	88.35	15.331	
7,750.00	7,205.70	7,523.68	6,562.27	51.32	68.73	38.21	1,673.09	2,900.62	1,364.59	1,275.64	88.94	15.343	
7,800.00	7,252.52	7,572.26	6,602.50	51.66	69.29	27.19	1,686.88	2,924.11	1,374.38	1,285.07	89.31	15.388	
7,850.00	7,299.89	7,620.16	6,642.17	51.96	69.83	13.47	1,700.47	2,947.26	1,383.87	1,294.41	89.46	15.469	
7,900.00	7,347.44	7,666.99	6,680.95	52.20	70.37	-1.55	1,713.76	2,969.90	1,393.08	1,303.69	89.39	15.584	
7,950.00	7,394.83	7,712.42	6,718.57	52.39	70.89	-15.71	1,726.65	2,991.86	1,402.06	1,312.96	89.10	15.736	
8,000.00	7,441.68	7,756.08	6,754.73	52.53	71.39	-27.53	1,739.04	3,012.97	1,410.91	1,322.31	88.60	15.924	
8,050.00	7,487.65	7,802.34	6,789.17	52.62	71.92	-36.74	1,750.84	3,033.06	1,419.74	1,331.80	87.94	16.144	
8,100.00	7,532.37	7,836.83	6,821.60	52.67	72.32	-43.73	1,761.95	3,052.00	1,428.68	1,341.64	87.04	16.414	
8,150.00	7,575.52	7,873.29	6,851.80	52.67	72.73	-49.03	1,772.30	3,069.62	1,437.86	1,351.85	86.01	16.717	
8,200.00	7,616.76	7,906.77	6,879.53	52.63	73.12	-53.04	1,781.80	3,085.81	1,447.43	1,362.59	84.85	17.060	
8,250.00	7,655.77	7,937.02	6,904.57	52.55	73.46	-56.05	1,790.38	3,100.43	1,457.53	1,373.95	83.58	17.440	
8,300.00	7,692.27	7,963.79	6,926.75	52.44	73.77	-58.27	1,797.98	3,113.37	1,468.26	1,386.03	82.23	17.855	
8,350.00	7,725.97	7,986.90	6,945.88	52.29	74.03	-59.82	1,804.53	3,124.54	1,479.74	1,398.88	80.85	18.301	
8,400.00	7,756.62	8,006.15	6,961.83	52.12	74.26	-60.77	1,810.00	3,133.85	1,492.03	1,412.55	79.47	18.774	
8,450.00	7,783.98	8,021.42	6,974.47	51.92	74.43	-61.20	1,814.33	3,141.23	1,505.16	1,427.03	78.13	19.264	
8,500.00	7,807.85	8,032.57	6,983.70	51.70	74.56	-61.14	1,817.49	3,146.62	1,519.15	1,442.28	76.86	19.764	
8,550.00	7,828.05	8,039.53	6,989.47	51.45	74.64	-60.63	1,819.47	3,149.98	1,533.95	1,458.25	75.70	20.263	
8,600.00	7,844.41	8,042.24	6,991.71	51.20	74.67	-59.69	1,820.24	3,151.29	1,549.48	1,474.81	74.67	20.751	
8,650.00	7,856.82	8,040.68	6,990.42	50.93	74.65	-58.37	1,819.79	3,150.54	1,565.64	1,491.85	73.79	21.218	
8,700.00	7,865.18	8,034.87	6,985.61	50.65	74.58	-56.71	1,818.14	3,147.73	1,582.26	1,509.19	73.07	21.654	
8,750.00	7,869.43	8,024.84	6,977.30	50.36	74.47	-54.74	1,815.30	3,142.88	1,599.16	1,526.64	72.51	22.053	
8,776.25	7,870.00	8,017.91	6,971.57	50.21	74.39	-53.61	1,813.33	3,139.53	1,608.07	1,535.79	72.29	22.246	
8,800.00	7,870.00	8,011.14	6,965.95	50.08	74.31	-53.36	1,811.41	3,136.26	1,616.28	1,544.16	72.12	22.411	
8,900.00	7,870.00	7,982.60	6,942.32	49.53	73.99	-52.33	1,803.31	3,122.46	1,653.81	1,582.00	71.82	23.028	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	9,506.19	7,730.00	49.01	77.86	-85.21	1,042.11	3,578.76	1,665.18	1,581.46	83.72	19.891	
9,100.00	7,870.00	9,606.19	7,730.00	48.52	77.51	-85.21	942.11	3,578.42	1,665.18	1,582.10	83.08	20.043	
9,200.00	7,870.00	9,706.19	7,730.00	48.06	77.17	-85.21	842.11	3,578.08	1,665.18	1,582.59	82.59	20.161	
9,300.00	7,870.00	9,806.19	7,730.00	47.63	76.86	-85.21	742.11	3,577.75	1,665.19	1,582.93	82.25	20.244	
9,400.00	7,870.00	9,906.19	7,730.00	47.22	76.56	-85.21	642.11	3,577.41	1,665.19	1,583.12	82.07	20.291	
9,500.00	7,870.00	10,006.19	7,730.00	46.83	76.28	-85.21	542.11	3,577.07	1,665.19	1,583.16	82.03	20.300	
9,600.00	7,870.00	10,106.19	7,730.00	46.48	76.02	-85.21	442.11	3,576.73	1,665.19	1,583.05	82.14	20.272	
9,700.00	7,870.00	10,206.19	7,730.00	46.14	75.78	-85.21	342.11	3,576.40	1,665.19	1,582.78	82.41	20.206	
9,800.00	7,870.00	10,306.19	7,730.00	45.83	75.55	-85.21	242.11	3,576.06	1,665.20	1,582.37	82.83	20.105	
9,900.00	7,870.00	10,406.19	7,730.00	45.54	75.35	-85.21	142.11	3,575.72	1,665.20	1,581.81	83.39	19.969	
10,000.00	7,870.00	10,506.19	7,730.00	45.27	75.16	-85.21	42.11	3,575.38	1,665.20	1,581.10	84.10	19.801	
10,100.00	7,870.00	10,593.82	7,730.00	45.03	75.02	-85.21	-57.89	3,575.05	1,665.20	1,580.31	84.90	19.614	
10,200.00	7,870.00	10,706.19	7,730.00	44.82	74.86	-85.21	-157.89	3,574.71	1,665.20	1,579.27	85.93	19.378	
10,300.00	7,870.00	10,806.19	7,730.00	44.66	74.73	-85.21	-257.89	3,574.37	1,665.21	1,578.16	87.05	19.129	
10,400.00	7,870.00	10,906.19	7,730.00	44.56	74.63	-85.21	-357.89	3,574.03	1,665.21	1,576.91	88.29	18.860	
10,500.00	7,870.00	11,006.19	7,730.00	44.58	74.55	-85.21	-457.89	3,573.70	1,665.21	1,575.55	89.66	18.573	
10,600.00	7,870.00	11,106.19	7,730.00	44.82	74.50	-85.21	-557.89	3,573.36	1,665.21	1,574.07	91.14	18.271	
10,700.00	7,870.00	11,206.19	7,730.00	45.36	74.48	-85.21	-657.89	3,573.02	1,665.21	1,572.48	92.73	17.957	
10,800.00	7,870.00	11,306.19	7,730.00	46.15	74.48	-85.21	-757.88	3,572.68	1,665.22	1,570.79	94.43	17.635	
10,900.00	7,870.00	11,406.19	7,730.00	47.09	74.51	-85.21	-857.88	3,572.35	1,665.22	1,568.99	96.22	17.306	
11,000.00	7,870.00	11,506.19	7,730.00	48.13	74.57	-85.21	-957.88	3,572.01	1,665.22	1,567.11	98.11	16.972	
11,100.00	7,870.00	11,606.19	7,730.00	49.22	74.66	-85.21	-1,057.88	3,571.67	1,665.22	1,565.13	100.09	16.637	
11,200.00	7,870.00	11,706.19	7,730.00	50.37	74.80	-85.21	-1,157.88	3,571.33	1,665.23	1,563.07	102.15	16.301	
11,300.00	7,870.00	11,806.19	7,730.00	51.55	74.97	-85.21	-1,257.88	3,571.00	1,665.23	1,560.94	104.29	15.967	
11,400.00	7,870.00	11,906.19	7,730.00	52.76	75.19	-85.21	-1,357.88	3,570.66	1,665.23	1,558.73	106.50	15.635	
11,500.00	7,870.00	12,006.19	7,730.00	54.00	75.45	-85.21	-1,457.88	3,570.32	1,665.23	1,556.45	108.79	15.307	
11,600.00	7,870.00	12,106.19	7,730.00	55.27	75.75	-85.21	-1,557.88	3,569.98	1,665.23	1,554.10	111.13	14.984	
11,700.00	7,870.00	12,206.19	7,730.00	56.56	76.12	-85.21	-1,657.88	3,569.65	1,665.24	1,551.70	113.54	14.667	
11,800.00	7,870.00	12,306.19	7,730.00	57.88	76.53	-85.21	-1,757.88	3,569.31	1,665.24	1,549.23	116.00	14.355	
11,900.00	7,870.00	12,406.19	7,730.00	59.21	77.01	-85.21	-1,857.88	3,568.97	1,665.24	1,546.72	118.52	14.050	
12,000.00	7,870.00	12,506.19	7,730.00	60.57	77.54	-85.21	-1,957.88	3,568.64	1,665.24	1,544.15	121.09	13.752	
12,100.00	7,870.00	12,593.82	7,730.00	61.94	78.05	-85.21	-2,057.88	3,568.30	1,665.24	1,541.70	123.55	13.479	
12,200.00	7,870.00	12,706.19	7,730.00	63.33	78.78	-85.21	-2,157.88	3,567.96	1,665.25	1,538.88	126.36	13.178	
12,300.00	7,870.00	12,806.19	7,730.00	64.74	79.50	-85.21	-2,257.88	3,567.62	1,665.25	1,536.18	129.06	12.902	
12,400.00	7,870.00	12,906.19	7,730.00	66.16	80.27	-85.21	-2,357.88	3,567.29	1,665.25	1,533.45	131.80	12.634	
12,500.00	7,870.00	13,006.19	7,730.00	67.59	81.10	-85.21	-2,457.87	3,566.95	1,665.25	1,530.67	134.58	12.374	
12,600.00	7,870.00	13,106.19	7,730.00	69.04	81.99	-85.21	-2,557.87	3,566.61	1,665.25	1,527.86	137.39	12.121	
12,700.00	7,870.00	13,206.19	7,730.00	70.51	82.93	-85.21	-2,657.87	3,566.27	1,665.26	1,525.02	140.23	11.875	
12,800.00	7,870.00	13,306.19	7,730.00	71.98	83.92	-85.21	-2,757.87	3,565.94	1,665.26	1,522.15	143.10	11.637	
12,900.00	7,870.00	13,406.19	7,730.00	73.47	84.96	-85.21	-2,857.87	3,565.60	1,665.26	1,519.25	146.01	11.405	
13,000.00	7,870.00	13,506.19	7,730.00	74.96	86.04	-85.21	-2,957.87	3,565.26	1,665.26	1,516.33	148.93	11.181	
13,100.00	7,870.00	13,606.19	7,730.00	76.47	87.16	-85.21	-3,057.87	3,564.92	1,665.26	1,513.38	151.89	10.964	
13,200.00	7,870.00	13,706.19	7,730.00	77.99	88.32	-85.21	-3,157.87	3,564.59	1,665.27	1,510.40	154.86	10.753	
13,300.00	7,870.00	13,806.19	7,730.00	79.51	89.52	-85.21	-3,257.87	3,564.25	1,665.27	1,507.41	157.86	10.549	
13,400.00	7,870.00	13,906.19	7,730.00	81.05	90.74	-85.21	-3,357.87	3,563.91	1,665.27	1,504.39	160.88	10.351	
13,500.00	7,870.00	14,006.19	7,730.00	82.59	91.99	-85.21	-3,457.87	3,563.57	1,665.27	1,501.35	163.93	10.159	
13,600.00	7,870.00	14,106.19	7,730.00	84.14	93.28	-85.21	-3,557.87	3,563.24	1,665.27	1,498.29	166.99	9.973	
13,700.00	7,870.00	14,206.19	7,730.00	85.70	94.58	-85.21	-3,657.87	3,562.90	1,665.28	1,495.21	170.06	9.792	
13,800.00	7,870.00	14,306.19	7,730.00	87.26	95.91	-85.21	-3,757.87	3,562.56	1,665.28	1,492.12	173.16	9.617	
13,900.00	7,870.00	14,406.19	7,730.00	88.83	97.26	-85.21	-3,857.87	3,562.22	1,665.28	1,489.01	176.27	9.447	
14,000.00	7,870.00	14,506.19	7,730.00	90.41	98.62	-85.21	-3,957.87	3,561.89	1,665.28	1,485.89	179.40	9.283	
14,100.00	7,870.00	14,606.19	7,730.00	92.00	100.01	-85.21	-4,057.87	3,561.55	1,665.28	1,482.75	182.54	9.123	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	14,706.19	7,730.00	93.59	101.41	-85.21	-4,157.87	3,561.21	1,665.29	1,479.60	185.69	8.968	
14,300.00	7,870.00	14,793.82	7,730.00	95.18	102.65	-85.21	-4,257.86	3,560.87	1,665.29	1,476.62	188.66	8.827	
14,400.00	7,870.00	14,906.19	7,730.00	96.79	104.26	-85.21	-4,357.86	3,560.54	1,665.29	1,473.25	192.04	8.672	
14,500.00	7,870.00	15,006.19	7,730.00	98.39	105.71	-85.21	-4,457.86	3,560.20	1,665.29	1,470.06	195.23	8.530	
14,600.00	7,870.00	15,106.19	7,730.00	100.00	107.16	-85.21	-4,557.86	3,559.86	1,665.30	1,466.86	198.43	8.392	
14,700.00	7,870.00	15,193.82	7,730.00	101.62	108.45	-85.21	-4,657.86	3,559.52	1,665.30	1,463.85	201.45	8.267	
14,800.00	7,870.00	15,306.19	7,730.00	103.24	110.11	-85.21	-4,757.86	3,559.19	1,665.30	1,460.43	204.87	8.129	
14,900.00	7,870.00	15,406.19	7,730.00	104.87	111.60	-85.21	-4,857.86	3,558.85	1,665.30	1,457.20	208.11	8.002	
15,000.00	7,870.00	15,506.19	7,730.00	106.50	113.10	-85.21	-4,957.86	3,558.51	1,665.30	1,453.95	211.35	7.879	
15,100.00	7,870.00	15,606.19	7,730.00	108.13	114.61	-85.21	-5,057.86	3,558.17	1,665.31	1,450.70	214.60	7.760	
15,200.00	7,870.00	15,706.19	7,730.00	109.77	116.13	-85.21	-5,157.86	3,557.84	1,665.31	1,447.45	217.86	7.644	
15,300.00	7,870.00	15,806.19	7,730.00	111.41	117.66	-85.21	-5,257.86	3,557.50	1,665.31	1,444.18	221.13	7.531	
15,400.00	7,870.00	15,906.19	7,730.00	113.05	119.19	-85.21	-5,357.86	3,557.16	1,665.31	1,440.91	224.41	7.421	
15,500.00	7,870.00	16,006.19	7,730.00	114.70	120.73	-85.21	-5,457.86	3,556.82	1,665.31	1,437.62	227.69	7.314	
15,600.00	7,870.00	16,106.19	7,730.00	116.35	122.28	-85.21	-5,557.86	3,556.49	1,665.32	1,434.34	230.98	7.210	
15,700.00	7,870.00	16,193.82	7,730.00	118.00	123.64	-85.21	-5,657.86	3,556.15	1,665.32	1,431.24	234.08	7.114	
15,800.00	7,870.00	16,306.19	7,730.00	119.66	125.39	-85.21	-5,757.86	3,555.81	1,665.32	1,427.74	237.58	7.009	
15,900.00	7,870.00	16,406.19	7,730.00	121.32	126.96	-85.21	-5,857.86	3,555.47	1,665.32	1,424.43	240.89	6.913	
16,000.00	7,870.00	16,506.19	7,730.00	122.98	128.53	-85.21	-5,957.85	3,555.14	1,665.32	1,421.11	244.21	6.819	
16,100.00	7,870.00	16,606.19	7,730.00	124.65	130.11	-85.21	-6,057.85	3,554.80	1,665.33	1,417.79	247.53	6.728	
16,200.00	7,870.00	16,706.19	7,730.00	126.32	131.69	-85.21	-6,157.85	3,554.46	1,665.33	1,414.47	250.86	6.639	
16,300.00	7,870.00	16,806.19	7,730.00	127.99	133.28	-85.21	-6,257.85	3,554.12	1,665.33	1,411.14	254.19	6.551	
16,400.00	7,870.00	16,906.19	7,730.00	129.66	134.87	-85.21	-6,357.85	3,553.79	1,665.33	1,407.80	257.53	6.467	
16,500.00	7,870.00	17,006.19	7,730.00	131.33	136.47	-85.21	-6,457.85	3,553.45	1,665.33	1,404.46	260.87	6.384	
16,600.00	7,870.00	17,106.19	7,730.00	133.01	138.07	-85.21	-6,557.85	3,553.11	1,665.34	1,401.12	264.22	6.303	
16,700.00	7,870.00	17,206.19	7,730.00	134.69	139.67	-85.21	-6,657.85	3,552.77	1,665.34	1,397.77	267.57	6.224	
16,800.00	7,870.00	17,306.19	7,730.00	136.37	141.28	-85.21	-6,757.85	3,552.44	1,665.34	1,394.41	270.93	6.147	
16,900.00	7,870.00	17,406.19	7,730.00	138.06	142.89	-85.21	-6,857.85	3,552.10	1,665.34	1,391.05	274.29	6.071	
17,000.00	7,870.00	17,506.19	7,730.00	139.74	144.51	-85.21	-6,957.85	3,551.76	1,665.34	1,387.69	277.66	5.998	
17,100.00	7,870.00	17,606.19	7,730.00	141.43	146.13	-85.21	-7,057.85	3,551.42	1,665.35	1,384.32	281.02	5.926	
17,200.00	7,870.00	17,706.19	7,730.00	143.12	147.75	-85.21	-7,157.85	3,551.09	1,665.35	1,380.95	284.40	5.856	
17,300.00	7,870.00	17,806.19	7,730.00	144.81	149.38	-85.21	-7,257.85	3,550.75	1,665.35	1,377.58	287.77	5.787	
17,400.00	7,870.00	17,906.19	7,730.00	146.50	151.01	-85.21	-7,357.85	3,550.41	1,665.35	1,374.20	291.15	5.720	
17,500.00	7,870.00	18,006.19	7,730.00	148.19	152.65	-85.21	-7,457.85	3,550.07	1,665.35	1,370.82	294.54	5.654	
17,600.00	7,870.00	18,106.19	7,730.00	149.89	154.28	-85.21	-7,557.85	3,549.74	1,665.36	1,367.43	297.92	5.590	
17,700.00	7,870.00	18,193.82	7,730.00	151.59	155.72	-85.21	-7,657.85	3,549.40	1,665.36	1,364.25	301.10	5.531	
17,800.00	7,870.00	18,306.19	7,730.00	153.29	157.56	-85.21	-7,757.84	3,549.06	1,665.36	1,360.66	304.71	5.465	
17,900.00	7,870.00	18,406.19	7,730.00	154.99	159.21	-85.21	-7,857.84	3,548.72	1,665.36	1,357.26	308.10	5.405	
18,000.00	7,870.00	18,506.19	7,730.00	156.69	160.85	-85.21	-7,957.84	3,548.39	1,665.36	1,353.87	311.50	5.346	
18,100.00	7,870.00	18,606.19	7,730.00	158.39	162.50	-85.21	-8,057.84	3,548.05	1,665.37	1,350.47	314.90	5.289	
18,200.00	7,870.00	18,706.19	7,730.00	160.09	164.16	-85.21	-8,157.84	3,547.71	1,665.37	1,347.06	318.30	5.232	
18,300.00	7,870.00	18,806.19	7,730.00	161.80	165.81	-85.21	-8,257.84	3,547.38	1,665.37	1,343.66	321.71	5.177	
18,400.00	7,870.00	18,893.82	7,730.00	163.51	167.26	-85.21	-8,357.84	3,547.04	1,665.37	1,340.46	324.91	5.126	
18,403.38	7,870.00	18,902.81	7,730.00	163.56	167.41	-85.21	-8,361.22	3,547.03	1,665.37	1,340.25	325.12	5.122	
18,455.45	7,870.00	18,942.39	7,730.00	164.45	168.07	-85.21	-8,406.42	3,546.87	1,665.39	1,338.45	326.94	5.094	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	90.70	-0.73	59.92	59.92				
100.00	100.00	101.00	99.00	0.13	0.14	90.70	-0.73	59.92	59.92	59.65	0.27	219.958	
200.00	200.00	201.00	199.00	0.49	0.50	90.70	-0.73	59.92	59.92	58.94	0.99	60.568	
300.00	300.00	301.00	299.00	0.85	0.85	90.70	-0.73	59.92	59.92	58.22	1.71	35.119	
400.00	400.00	401.00	399.00	1.21	1.21	90.70	-0.73	59.92	59.92	57.50	2.42	24.729	
500.00	500.00	501.00	499.00	1.57	1.57	90.70	-0.73	59.92	59.92	56.78	3.14	19.083	
600.00	600.00	601.00	599.00	1.93	1.93	90.70	-0.73	59.92	59.92	56.07	3.86	15.536	
700.00	700.00	699.00	699.00	2.29	2.28	90.70	-0.73	59.92	59.92	55.36	4.57	13.122	CC, ES
800.00	800.00	797.18	797.16	2.64	2.63	89.95	0.05	61.37	61.40	56.13	5.27	11.646	
900.00	900.00	895.12	894.97	3.00	2.98	87.90	2.41	65.77	65.94	59.97	5.97	11.045	
1,000.00	1,000.00	992.60	992.09	3.36	3.33	85.05	6.33	73.08	73.67	67.01	6.66	11.058	
1,100.00	1,100.00	1,089.41	1,088.21	3.72	3.69	81.95	11.76	83.21	84.72	77.38	7.35	11.532	
1,200.00	1,200.00	1,185.33	1,183.01	4.08	4.06	79.01	18.66	96.06	99.15	91.13	8.02	12.362	
1,300.00	1,300.00	1,280.17	1,276.21	4.44	4.44	76.41	26.95	111.51	116.96	108.28	8.68	13.469	
1,400.00	1,399.98	1,374.08	1,367.87	4.79	4.85	31.44	36.59	129.48	136.65	127.32	9.33	14.650	
1,500.00	1,499.84	1,467.36	1,458.22	5.15	5.28	30.27	47.57	149.94	156.63	146.67	9.96	15.723	
1,600.00	1,599.45	1,560.01	1,547.15	5.51	5.75	29.68	59.84	172.82	176.79	166.20	10.59	16.694	
1,700.00	1,698.70	1,652.04	1,634.61	5.87	6.25	29.49	73.37	198.04	197.09	185.87	11.21	17.575	
1,800.00	1,797.47	1,743.44	1,720.52	6.24	6.78	29.57	88.12	225.53	217.49	205.65	11.84	18.372	
1,900.00	1,895.62	1,834.23	1,804.83	6.63	7.35	29.85	104.04	255.20	237.98	225.51	12.46	19.092	
2,000.00	1,993.06	1,924.41	1,887.47	7.04	7.97	30.29	121.10	287.00	258.55	245.45	13.10	19.737	
2,100.00	2,089.64	2,013.98	1,968.39	7.48	8.62	30.83	139.26	320.84	279.22	265.47	13.75	20.310	
2,200.00	2,185.27	2,102.96	2,047.55	7.94	9.32	31.46	158.46	356.64	299.98	285.56	14.42	20.809	
2,300.00	2,279.82	2,191.36	2,124.90	8.45	10.08	32.14	178.69	394.33	320.84	305.73	15.11	21.229	
2,400.00	2,373.17	2,279.18	2,200.41	8.99	10.88	32.88	199.89	433.84	341.81	325.96	15.85	21.570	
2,500.00	2,465.21	2,366.43	2,274.03	9.58	11.73	33.65	222.02	475.10	362.89	346.27	16.62	21.829	
2,574.08	2,532.50	2,430.71	2,327.33	10.04	12.38	34.23	239.00	506.75	378.59	361.36	17.23	21.968	
2,600.00	2,555.89	2,453.11	2,345.72	10.21	12.62	34.50	245.05	518.03	384.19	366.74	17.45	22.013	
2,700.00	2,646.16	2,542.41	2,418.10	10.88	13.58	35.40	269.78	564.12	407.50	389.10	18.39	22.156	
2,800.00	2,736.44	2,639.28	2,496.21	11.57	14.67	36.25	296.87	614.60	431.56	412.02	19.53	22.092	
2,900.00	2,826.71	2,736.16	2,574.33	12.27	15.77	37.01	323.95	665.09	455.70	434.99	20.71	22.003	
3,000.00	2,916.98	2,833.03	2,652.45	13.00	16.88	37.69	351.04	715.57	479.91	458.00	21.92	21.896	
3,100.00	3,007.25	2,929.90	2,730.57	13.73	18.00	38.31	378.12	766.05	504.18	481.03	23.15	21.779	
3,200.00	3,097.52	3,026.78	2,808.69	14.48	19.13	38.87	405.20	816.53	528.50	504.09	24.40	21.655	
3,300.00	3,187.80	3,123.65	2,886.81	15.23	20.27	39.38	432.29	867.02	552.86	527.18	25.68	21.529	
3,400.00	3,278.07	3,220.53	2,964.93	15.99	21.42	39.85	459.37	917.50	577.26	550.29	26.97	21.401	
3,500.00	3,368.34	3,317.40	3,043.04	16.76	22.57	40.28	486.46	967.98	601.69	573.41	28.28	21.275	
3,600.00	3,458.61	3,414.27	3,121.16	17.54	23.72	40.67	513.54	1,018.46	626.16	596.55	29.61	21.150	
3,700.00	3,548.89	3,511.15	3,199.28	18.32	24.88	41.04	540.63	1,068.95	650.65	619.71	30.94	21.029	
3,800.00	3,639.16	3,608.02	3,277.40	19.10	26.04	41.38	567.71	1,119.43	675.16	642.87	32.29	20.912	
3,900.00	3,729.43	3,704.90	3,355.52	19.89	27.20	41.70	594.80	1,169.91	699.69	666.05	33.64	20.798	
4,000.00	3,819.70	3,801.77	3,433.64	20.69	28.37	41.99	621.88	1,220.39	724.24	689.24	35.01	20.688	
4,100.00	3,909.98	3,901.36	3,511.76	21.48	29.57	42.27	648.97	1,270.88	748.81	712.41	36.40	20.572	
4,200.00	4,000.25	4,004.48	3,589.88	22.28	30.82	42.53	676.05	1,321.36	773.40	735.57	37.82	20.447	
4,300.00	4,090.52	4,107.61	3,667.99	23.08	32.07	42.77	703.13	1,371.84	797.99	758.74	39.26	20.328	
4,400.00	4,180.79	4,189.27	3,746.11	23.88	33.06	43.00	730.22	1,422.32	822.60	782.06	40.54	20.291	
4,500.00	4,271.06	4,286.14	3,824.23	24.69	34.23	43.21	757.30	1,472.81	847.23	805.29	41.94	20.202	
4,600.00	4,361.34	4,383.02	3,902.35	25.49	35.41	43.41	784.39	1,523.29	871.86	828.52	43.34	20.116	
4,700.00	4,451.61	4,479.89	3,980.47	26.30	36.59	43.60	811.47	1,573.77	896.50	851.75	44.75	20.034	
4,800.00	4,541.88	4,576.76	4,058.59	27.11	37.77	43.78	838.56	1,624.25	921.15	874.99	46.16	19.956	
4,900.00	4,632.15	4,673.64	4,136.71	27.92	38.95	43.96	865.64	1,674.73	945.81	898.24	47.57	19.881	
5,000.00	4,722.43	4,770.51	4,214.82	28.74	40.13	44.12	892.73	1,725.22	970.48	921.48	48.99	19.808	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,867.39	4,292.94	29.55	41.31	44.27	919.81	1,775.70	995.15	944.74	50.42	19.739	
5,200.00	4,902.97	4,964.26	4,371.06	30.37	42.49	44.42	946.90	1,826.18	1,019.83	967.99	51.84	19.672	
5,300.00	4,993.24	5,061.13	4,449.18	31.18	43.67	44.56	973.98	1,876.66	1,044.52	991.25	53.27	19.608	
5,400.00	5,083.51	5,158.01	4,527.30	32.00	44.86	44.70	1,001.06	1,927.15	1,069.21	1,014.51	54.70	19.547	
5,500.00	5,173.79	5,254.88	4,605.42	32.82	46.04	44.82	1,028.15	1,977.63	1,093.91	1,037.77	56.13	19.488	
5,600.00	5,264.06	5,351.76	4,683.54	33.63	47.23	44.95	1,055.23	2,028.11	1,118.61	1,061.04	57.57	19.431	
5,700.00	5,354.33	5,448.63	4,761.66	34.45	48.41	45.06	1,082.32	2,078.59	1,143.32	1,084.31	59.00	19.377	
5,800.00	5,444.60	5,545.50	4,839.77	35.27	49.60	45.17	1,109.40	2,129.08	1,168.03	1,107.58	60.44	19.324	
5,900.00	5,534.88	5,642.38	4,917.89	36.09	50.78	45.28	1,136.49	2,179.56	1,192.74	1,130.86	61.88	19.274	
6,000.00	5,625.15	5,739.25	4,996.01	36.91	51.97	45.39	1,163.57	2,230.04	1,217.46	1,154.13	63.33	19.225	
6,100.00	5,715.42	5,836.13	5,074.13	37.74	53.16	45.48	1,190.66	2,280.52	1,242.18	1,177.41	64.77	19.178	
6,200.00	5,805.69	5,933.00	5,152.25	38.56	54.34	45.58	1,217.74	2,331.01	1,266.91	1,200.69	66.22	19.133	
6,300.00	5,895.96	6,029.87	5,230.37	39.38	55.53	45.67	1,244.83	2,381.49	1,291.64	1,223.97	67.66	19.089	
6,400.00	5,986.24	6,126.75	5,308.49	40.20	56.72	45.76	1,271.91	2,431.97	1,316.37	1,247.26	69.11	19.047	
6,500.00	6,076.51	6,223.62	5,386.60	41.03	57.91	45.84	1,298.99	2,482.45	1,341.10	1,270.54	70.56	19.006	
6,600.00	6,166.78	6,320.50	5,464.72	41.85	59.10	45.93	1,326.08	2,532.94	1,365.84	1,293.83	72.01	18.967	
6,700.00	6,257.05	6,417.37	5,542.84	42.67	60.28	46.00	1,353.16	2,583.42	1,390.58	1,317.11	73.47	18.928	
6,800.00	6,347.33	6,514.24	5,620.96	43.50	61.47	46.08	1,380.25	2,633.90	1,415.32	1,340.40	74.92	18.891	
6,900.00	6,437.60	6,611.12	5,699.08	44.32	62.66	46.15	1,407.33	2,684.38	1,440.07	1,363.69	76.37	18.856	
7,000.00	6,527.87	6,707.99	5,777.20	45.15	63.85	46.22	1,434.42	2,734.87	1,464.81	1,386.98	77.83	18.821	
7,100.00	6,618.14	6,804.87	5,855.32	45.98	65.04	46.29	1,461.50	2,785.35	1,489.56	1,410.28	79.28	18.788	
7,200.00	6,708.41	6,901.74	5,933.44	46.80	66.23	46.36	1,488.59	2,835.83	1,514.31	1,433.57	80.74	18.755	
7,300.00	6,798.69	7,001.39	6,011.55	47.63	67.45	46.42	1,515.67	2,886.31	1,539.06	1,456.84	82.22	18.719	
7,400.00	6,888.96	7,104.51	6,089.67	48.45	68.72	46.49	1,542.76	2,936.80	1,563.82	1,480.09	83.73	18.678	
7,500.00	6,979.23	7,192.36	6,167.79	49.28	69.80	46.55	1,569.84	2,987.28	1,588.57	1,503.46	85.12	18.663	
7,600.00	7,069.50	7,289.24	6,245.91	50.11	70.99	46.60	1,596.92	3,037.76	1,613.33	1,526.75	86.58	18.635	
7,692.09	7,152.63	7,378.44	6,317.85	50.87	72.09	46.66	1,621.87	3,084.25	1,636.13	1,548.21	87.92	18.609	
7,700.00	7,159.79	7,386.11	6,324.03	50.93	72.18	45.65	1,624.01	3,088.24	1,638.09	1,550.05	88.04	18.607	
7,750.00	7,205.70	7,434.53	6,363.07	51.32	72.77	37.77	1,637.55	3,113.47	1,650.33	1,561.69	88.64	18.619	
7,800.00	7,252.52	7,482.63	6,401.86	51.66	73.37	27.03	1,651.00	3,138.54	1,662.31	1,573.27	89.04	18.668	
7,850.00	7,299.89	7,530.05	6,440.10	51.96	73.95	13.62	1,664.25	3,163.25	1,673.99	1,584.74	89.25	18.756	
7,900.00	7,347.44	7,576.44	6,477.51	52.20	74.52	-1.07	1,677.22	3,187.43	1,685.36	1,596.10	89.26	18.882	
7,950.00	7,394.83	7,621.43	6,513.79	52.39	75.07	-14.89	1,689.80	3,210.87	1,696.43	1,607.37	89.07	19.047	
8,000.00	7,441.68	7,664.68	6,548.67	52.53	75.60	-26.35	1,701.89	3,233.41	1,707.26	1,618.57	88.69	19.250	
8,050.00	7,487.65	7,705.87	6,581.88	52.62	76.11	-35.22	1,713.41	3,254.88	1,717.91	1,629.77	88.14	19.491	
8,100.00	7,532.37	7,744.68	6,613.18	52.67	76.59	-41.88	1,724.26	3,275.10	1,728.46	1,641.04	87.42	19.772	
8,150.00	7,575.52	7,780.82	6,642.32	52.67	77.03	-46.87	1,734.36	3,293.93	1,739.00	1,652.44	86.56	20.090	
8,200.00	7,616.76	7,814.01	6,669.08	52.63	77.44	-50.60	1,743.64	3,311.23	1,749.63	1,664.06	85.57	20.446	
8,250.00	7,655.77	7,844.00	6,693.26	52.55	77.81	-53.38	1,752.03	3,326.85	1,760.43	1,675.95	84.48	20.838	
8,300.00	7,692.27	7,870.55	6,714.68	52.44	78.13	-55.41	1,759.45	3,340.69	1,771.50	1,688.19	83.31	21.264	
8,350.00	7,725.97	7,906.52	6,733.17	52.29	78.58	-56.83	1,765.86	3,352.64	1,782.90	1,700.72	82.17	21.696	
8,400.00	7,756.62	7,912.60	6,748.59	52.12	78.65	-57.73	1,771.21	3,362.60	1,794.68	1,713.83	80.85	22.198	
8,450.00	7,783.98	7,927.77	6,760.82	51.92	78.84	-58.17	1,775.45	3,370.51	1,806.86	1,727.25	79.61	22.695	
8,500.00	7,807.85	7,938.87	6,769.77	51.70	78.97	-58.20	1,778.55	3,376.29	1,819.45	1,741.03	78.42	23.201	
8,550.00	7,828.05	7,945.81	6,775.37	51.45	79.06	-57.86	1,780.49	3,379.91	1,832.43	1,755.14	77.29	23.709	
8,600.00	7,844.41	7,948.56	6,777.58	51.20	79.09	-57.17	1,781.26	3,381.34	1,845.72	1,769.47	76.25	24.207	
8,650.00	7,856.82	7,947.08	6,776.39	50.93	79.07	-56.17	1,780.85	3,380.57	1,859.24	1,783.93	75.31	24.687	
8,700.00	7,865.18	7,941.38	6,771.80	50.65	79.00	-54.90	1,779.26	3,377.60	1,872.88	1,798.38	74.50	25.141	
8,750.00	7,869.43	7,931.52	6,763.84	50.36	78.88	-53.38	1,776.50	3,372.46	1,886.48	1,812.68	73.81	25.559	
8,776.25	7,870.00	7,924.69	6,758.34	50.21	78.80	-52.49	1,774.59	3,368.91	1,893.56	1,820.06	73.50	25.762	
8,800.00	7,870.00	7,918.01	6,752.95	50.08	78.72	-52.29	1,772.72	3,365.42	1,900.06	1,826.81	73.26	25.937	
8,900.00	7,870.00	7,889.87	6,730.26	49.53	78.37	-51.45	1,764.85	3,350.76	1,930.14	1,857.57	72.57	26.598	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,861.74	6,707.57	49.01	78.03	-50.61	1,756.99	3,336.10	1,964.44	1,892.04	72.40	27.132	
9,100.00	7,870.00	7,833.60	6,684.89	48.52	77.68	-49.77	1,749.12	3,321.44	2,002.76	1,930.06	72.70	27.547	
9,200.00	7,870.00	9,774.78	7,630.00	48.06	84.71	-83.22	840.96	3,928.05	2,023.50	1,939.06	84.45	23.962	
9,300.00	7,870.00	9,874.78	7,630.00	47.63	84.41	-83.22	740.96	3,927.71	2,023.51	1,939.38	84.13	24.052	
9,400.00	7,870.00	9,974.78	7,630.00	47.22	84.13	-83.22	640.96	3,927.38	2,023.51	1,939.55	83.96	24.101	
9,500.00	7,870.00	10,074.78	7,630.00	46.83	83.86	-83.22	540.96	3,927.04	2,023.51	1,939.58	83.94	24.107	
9,600.00	7,870.00	10,174.78	7,630.00	46.48	83.61	-83.22	440.96	3,926.70	2,023.52	1,939.45	84.06	24.071	
9,700.00	7,870.00	10,274.78	7,630.00	46.14	83.38	-83.22	340.96	3,926.37	2,023.52	1,939.18	84.34	23.993	
9,800.00	7,870.00	10,374.78	7,630.00	45.83	83.17	-83.22	240.96	3,926.03	2,023.52	1,938.77	84.76	23.875	
9,900.00	7,870.00	10,474.78	7,630.00	45.54	82.97	-83.22	140.96	3,925.70	2,023.53	1,938.21	85.32	23.717	
10,000.00	7,870.00	10,574.78	7,630.00	45.27	82.79	-83.22	40.96	3,925.36	2,023.53	1,937.51	86.02	23.524	
10,100.00	7,870.00	10,674.78	7,630.00	45.03	82.63	-83.22	-59.04	3,925.03	2,023.54	1,936.67	86.86	23.296	
10,200.00	7,870.00	10,774.78	7,630.00	44.82	82.48	-83.22	-159.04	3,924.69	2,023.54	1,935.70	87.84	23.038	
10,300.00	7,870.00	10,874.78	7,630.00	44.66	82.35	-83.22	-259.04	3,924.35	2,023.54	1,934.61	88.94	22.753	
10,400.00	7,870.00	10,974.78	7,630.00	44.56	82.25	-83.22	-359.03	3,924.02	2,023.55	1,933.38	90.16	22.443	
10,500.00	7,870.00	11,074.78	7,630.00	44.58	82.16	-83.22	-459.03	3,923.68	2,023.55	1,932.04	91.51	22.114	
10,600.00	7,870.00	11,174.78	7,630.00	44.82	82.09	-83.22	-559.03	3,923.35	2,023.55	1,930.59	92.97	21.767	
10,700.00	7,870.00	11,274.78	7,630.00	45.36	82.05	-83.22	-659.03	3,923.01	2,023.56	1,929.03	94.53	21.406	
10,800.00	7,870.00	11,374.78	7,630.00	46.15	82.03	-83.22	-759.03	3,922.68	2,023.56	1,927.36	96.20	21.035	
10,900.00	7,870.00	11,474.78	7,630.00	47.09	82.02	-83.22	-859.03	3,922.34	2,023.57	1,925.60	97.97	20.655	
11,000.00	7,870.00	11,574.78	7,630.00	48.13	82.05	-83.22	-959.03	3,922.00	2,023.57	1,923.74	99.83	20.271	
11,100.00	7,870.00	11,674.78	7,630.00	49.22	82.10	-83.22	-1,059.03	3,921.67	2,023.57	1,921.80	101.77	19.883	
11,200.00	7,870.00	11,774.78	7,630.00	50.37	82.19	-83.22	-1,159.03	3,921.33	2,023.58	1,919.78	103.80	19.495	
11,300.00	7,870.00	11,874.78	7,630.00	51.55	82.30	-83.22	-1,259.03	3,921.00	2,023.58	1,917.67	105.91	19.107	
11,400.00	7,870.00	11,974.78	7,630.00	52.76	82.44	-83.22	-1,359.03	3,920.66	2,023.58	1,915.50	108.09	18.722	
11,500.00	7,870.00	12,074.78	7,630.00	54.00	82.61	-83.22	-1,459.03	3,920.32	2,023.59	1,913.25	110.33	18.341	
11,600.00	7,870.00	12,174.78	7,630.00	55.27	82.82	-83.22	-1,559.03	3,919.99	2,023.59	1,910.94	112.65	17.964	
11,700.00	7,870.00	12,274.78	7,630.00	56.56	83.07	-83.22	-1,659.03	3,919.65	2,023.59	1,908.58	115.02	17.594	
11,800.00	7,870.00	12,374.78	7,630.00	57.88	83.36	-83.22	-1,759.03	3,919.32	2,023.60	1,906.15	117.45	17.230	
11,900.00	7,870.00	12,474.78	7,630.00	59.21	83.70	-83.22	-1,859.03	3,918.98	2,023.60	1,903.67	119.93	16.873	
12,000.00	7,870.00	12,574.78	7,630.00	60.57	84.07	-83.22	-1,959.03	3,918.65	2,023.61	1,901.14	122.47	16.524	
12,100.00	7,870.00	12,674.78	7,630.00	61.94	84.50	-83.22	-2,059.03	3,918.31	2,023.61	1,898.56	125.05	16.183	
12,200.00	7,870.00	12,774.78	7,630.00	63.33	84.97	-83.22	-2,159.02	3,917.97	2,023.61	1,895.94	127.67	15.850	
12,300.00	7,870.00	12,874.78	7,630.00	64.74	85.49	-83.22	-2,259.02	3,917.64	2,023.62	1,893.27	130.34	15.525	
12,400.00	7,870.00	12,974.78	7,630.00	66.16	86.07	-83.22	-2,359.02	3,917.30	2,023.62	1,890.57	133.05	15.210	
12,500.00	7,870.00	13,074.78	7,630.00	67.59	86.70	-83.22	-2,459.02	3,916.97	2,023.62	1,887.83	135.79	14.902	
12,600.00	7,870.00	13,174.78	7,630.00	69.04	87.38	-83.22	-2,559.02	3,916.63	2,023.63	1,885.06	138.57	14.604	
12,700.00	7,870.00	13,274.78	7,630.00	70.51	88.11	-83.22	-2,659.02	3,916.29	2,023.63	1,882.25	141.38	14.313	
12,800.00	7,870.00	13,374.78	7,630.00	71.98	88.89	-83.22	-2,759.02	3,915.96	2,023.64	1,879.41	144.22	14.031	
12,900.00	7,870.00	13,474.78	7,630.00	73.47	89.73	-83.22	-2,859.02	3,915.62	2,023.64	1,876.54	147.09	13.757	
13,000.00	7,870.00	13,574.78	7,630.00	74.96	90.61	-83.22	-2,959.02	3,915.29	2,023.64	1,873.65	149.99	13.492	
13,100.00	7,870.00	13,674.78	7,630.00	76.47	91.54	-83.22	-3,059.02	3,914.95	2,023.65	1,870.73	152.92	13.234	
13,200.00	7,870.00	13,774.78	7,630.00	77.99	92.51	-83.22	-3,159.02	3,914.62	2,023.65	1,867.79	155.86	12.983	
13,300.00	7,870.00	13,874.78	7,630.00	79.51	93.53	-83.22	-3,259.02	3,914.28	2,023.65	1,864.82	158.84	12.741	
13,400.00	7,870.00	13,974.78	7,630.00	81.05	94.59	-83.22	-3,359.02	3,913.94	2,023.66	1,861.83	161.83	12.505	
13,500.00	7,870.00	14,074.78	7,630.00	82.59	95.69	-83.22	-3,459.02	3,913.61	2,023.66	1,858.82	164.84	12.276	
13,600.00	7,870.00	14,174.78	7,630.00	84.14	96.82	-83.22	-3,559.02	3,913.27	2,023.66	1,855.79	167.88	12.055	
13,700.00	7,870.00	14,274.78	7,630.00	85.70	97.98	-83.22	-3,659.02	3,912.94	2,023.67	1,852.74	170.93	11.839	
13,800.00	7,870.00	14,374.78	7,630.00	87.26	99.18	-83.22	-3,759.02	3,912.60	2,023.67	1,849.68	174.00	11.631	
13,900.00	7,870.00	14,474.78	7,630.00	88.83	100.40	-83.22	-3,859.02	3,912.26	2,023.68	1,846.59	177.08	11.428	
14,000.00	7,870.00	14,574.78	7,630.00	90.41	101.65	-83.22	-3,959.01	3,911.93	2,023.68	1,843.50	180.18	11.231	
14,100.00	7,870.00	14,674.78	7,630.00	92.00	102.93	-83.22	-4,059.01	3,911.59	2,023.68	1,840.39	183.30	11.040	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	14,774.78	7,630.00	93.59	104.23	-83.22	-4,159.01	3,911.26	2,023.69	1,837.26	186.43	10.855	
14,300.00	7,870.00	14,874.78	7,630.00	95.18	105.55	-83.22	-4,259.01	3,910.92	2,023.69	1,834.12	189.57	10.675	
14,400.00	7,870.00	14,974.78	7,630.00	96.79	106.89	-83.22	-4,359.01	3,910.59	2,023.69	1,830.97	192.73	10.500	
14,500.00	7,870.00	15,074.78	7,630.00	98.39	108.25	-83.22	-4,459.01	3,910.25	2,023.70	1,827.80	195.90	10.330	
14,600.00	7,870.00	15,174.78	7,630.00	100.00	109.63	-83.22	-4,559.01	3,909.91	2,023.70	1,824.63	199.08	10.165	
14,700.00	7,870.00	15,274.78	7,630.00	101.62	111.03	-83.22	-4,659.01	3,909.58	2,023.71	1,821.44	202.27	10.005	
14,800.00	7,870.00	15,374.78	7,630.00	103.24	112.43	-83.22	-4,759.01	3,909.24	2,023.71	1,818.24	205.47	9.849	
14,900.00	7,870.00	15,474.78	7,630.00	104.87	113.86	-83.22	-4,859.01	3,908.91	2,023.71	1,815.03	208.68	9.698	
15,000.00	7,870.00	15,574.78	7,630.00	106.50	115.29	-83.22	-4,959.01	3,908.57	2,023.72	1,811.81	211.90	9.550	
15,100.00	7,870.00	15,674.78	7,630.00	108.13	116.74	-83.22	-5,059.01	3,908.24	2,023.72	1,808.59	215.13	9.407	
15,200.00	7,870.00	15,774.78	7,630.00	109.77	118.20	-83.22	-5,159.01	3,907.90	2,023.72	1,805.35	218.37	9.267	
15,300.00	7,870.00	15,874.78	7,630.00	111.41	119.68	-83.22	-5,259.01	3,907.56	2,023.73	1,802.11	221.62	9.132	
15,400.00	7,870.00	15,974.78	7,630.00	113.05	121.16	-83.22	-5,359.01	3,907.23	2,023.73	1,798.85	224.88	8.999	
15,500.00	7,870.00	16,074.78	7,630.00	114.70	122.65	-83.22	-5,459.01	3,906.89	2,023.73	1,795.60	228.14	8.871	
15,600.00	7,870.00	16,174.78	7,630.00	116.35	124.15	-83.22	-5,559.01	3,906.56	2,023.74	1,792.33	231.41	8.745	
15,700.00	7,870.00	16,274.78	7,630.00	118.00	125.66	-83.22	-5,659.00	3,906.22	2,023.74	1,789.05	234.69	8.623	
15,800.00	7,870.00	16,374.78	7,630.00	119.66	127.18	-83.22	-5,759.00	3,905.88	2,023.75	1,785.77	237.97	8.504	
15,900.00	7,870.00	16,474.78	7,630.00	121.32	128.70	-83.22	-5,859.00	3,905.55	2,023.75	1,782.49	241.26	8.388	
16,000.00	7,870.00	16,574.78	7,630.00	122.98	130.24	-83.22	-5,959.00	3,905.21	2,023.75	1,779.19	244.56	8.275	
16,100.00	7,870.00	16,674.78	7,630.00	124.65	131.78	-83.22	-6,059.00	3,904.88	2,023.76	1,775.89	247.86	8.165	
16,200.00	7,870.00	16,774.78	7,630.00	126.32	133.32	-83.22	-6,159.00	3,904.54	2,023.76	1,772.59	251.17	8.057	
16,300.00	7,870.00	16,874.78	7,630.00	127.99	134.87	-83.22	-6,259.00	3,904.21	2,023.76	1,769.28	254.49	7.952	
16,400.00	7,870.00	16,974.78	7,630.00	129.66	136.43	-83.22	-6,359.00	3,903.87	2,023.77	1,765.96	257.81	7.850	
16,500.00	7,870.00	17,074.78	7,630.00	131.33	138.00	-83.22	-6,459.00	3,903.53	2,023.77	1,762.64	261.13	7.750	
16,600.00	7,870.00	17,174.78	7,630.00	133.01	139.57	-83.22	-6,559.00	3,903.20	2,023.78	1,759.31	264.46	7.652	
16,700.00	7,870.00	17,274.78	7,630.00	134.69	141.14	-83.22	-6,659.00	3,902.86	2,023.78	1,755.98	267.80	7.557	
16,800.00	7,870.00	17,374.78	7,630.00	136.37	142.73	-83.22	-6,759.00	3,902.53	2,023.78	1,752.65	271.14	7.464	
16,900.00	7,870.00	17,474.78	7,630.00	138.06	144.31	-83.22	-6,859.00	3,902.19	2,023.79	1,749.31	274.48	7.373	
17,000.00	7,870.00	17,574.78	7,630.00	139.74	145.90	-83.22	-6,959.00	3,901.85	2,023.79	1,745.96	277.83	7.284	
17,100.00	7,870.00	17,674.78	7,630.00	141.43	147.50	-83.22	-7,059.00	3,901.52	2,023.79	1,742.61	281.18	7.198	
17,200.00	7,870.00	17,774.78	7,630.00	143.12	149.09	-83.22	-7,159.00	3,901.18	2,023.80	1,739.26	284.54	7.113	
17,300.00	7,870.00	17,874.78	7,630.00	144.81	150.70	-83.22	-7,259.00	3,900.85	2,023.80	1,735.91	287.89	7.030	
17,400.00	7,870.00	17,974.78	7,630.00	146.50	152.30	-83.22	-7,359.00	3,900.51	2,023.80	1,732.55	291.26	6.948	
17,500.00	7,870.00	18,074.78	7,630.00	148.19	153.92	-83.22	-7,458.99	3,900.18	2,023.81	1,729.18	294.62	6.869	
17,600.00	7,870.00	18,174.78	7,630.00	149.89	155.53	-83.22	-7,558.99	3,899.84	2,023.81	1,725.82	297.99	6.791	
17,700.00	7,870.00	18,274.78	7,630.00	151.59	157.15	-83.22	-7,658.99	3,899.50	2,023.82	1,722.45	301.37	6.715	
17,800.00	7,870.00	18,374.78	7,630.00	153.29	158.77	-83.22	-7,758.99	3,899.17	2,023.82	1,719.07	304.75	6.641	
17,900.00	7,870.00	18,474.78	7,630.00	154.99	160.39	-83.22	-7,858.99	3,898.83	2,023.82	1,715.70	308.12	6.568	
18,000.00	7,870.00	18,574.78	7,630.00	156.69	162.02	-83.22	-7,958.99	3,898.50	2,023.83	1,712.32	311.51	6.497	
18,100.00	7,870.00	18,674.78	7,630.00	158.39	163.65	-83.22	-8,058.99	3,898.16	2,023.83	1,708.94	314.89	6.427	
18,200.00	7,870.00	18,774.78	7,630.00	160.09	165.28	-83.22	-8,158.99	3,897.82	2,023.83	1,705.55	318.28	6.359	
18,300.00	7,870.00	18,874.78	7,630.00	161.80	166.92	-83.22	-8,258.99	3,897.49	2,023.84	1,702.16	321.67	6.292	
18,400.00	7,870.00	18,974.78	7,630.00	163.51	168.56	-83.22	-8,358.99	3,897.15	2,023.84	1,698.77	325.07	6.226	
18,402.52	7,870.00	18,977.30	7,630.00	163.55	168.60	-83.22	-8,361.51	3,897.14	2,023.84	1,698.69	325.15	6.224	
18,455.45	7,870.00	19,021.79	7,630.00	164.45	169.33	-83.22	-8,406.00	3,897.00	2,023.86	1,696.78	327.08	6.188	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	90.60	-0.73	69.72	69.72				
100.00	100.00	101.00	99.00	0.13	0.14	90.60	-0.73	69.72	69.72	69.45	0.27	255.927	
200.00	200.00	201.00	199.00	0.49	0.50	90.60	-0.73	69.72	69.72	68.74	0.99	70.473	
300.00	300.00	301.00	299.00	0.85	0.85	90.60	-0.73	69.72	69.72	68.02	1.71	40.862	
400.00	400.00	401.00	399.00	1.21	1.21	90.60	-0.73	69.72	69.72	67.30	2.42	28.773	
500.00	500.00	501.00	499.00	1.57	1.57	90.60	-0.73	69.72	69.72	66.58	3.14	22.204	
600.00	600.00	599.00	599.00	1.93	1.92	90.60	-0.73	69.72	69.72	65.87	3.85	18.110	CC, ES
700.00	700.00	696.86	696.84	2.29	2.27	90.00	-0.01	71.19	71.22	66.67	4.55	15.639	
800.00	800.00	794.47	794.32	2.64	2.62	88.35	2.18	75.64	75.82	70.57	5.25	14.435	
900.00	900.00	891.63	891.13	3.00	2.97	85.99	5.81	83.03	83.61	77.66	5.95	14.061	
1,000.00	1,000.00	988.12	986.94	3.36	3.33	83.36	10.85	93.28	94.68	88.05	6.63	14.274	
1,100.00	1,100.00	1,083.74	1,081.44	3.72	3.70	80.78	17.25	106.28	109.10	101.79	7.31	14.922	
1,200.00	1,200.00	1,178.28	1,174.36	4.08	4.09	78.44	24.93	121.92	126.86	118.88	7.98	15.900	
1,300.00	1,300.00	1,271.56	1,265.42	4.44	4.50	76.41	33.84	140.04	147.93	139.29	8.63	17.133	
1,400.00	1,399.98	1,363.80	1,354.78	4.79	4.93	31.81	43.93	160.56	170.79	161.52	9.27	18.422	
1,500.00	1,499.84	1,455.33	1,442.68	5.15	5.40	30.84	55.19	183.46	193.90	184.00	9.90	19.589	
1,600.00	1,599.45	1,546.17	1,529.06	5.51	5.90	30.35	67.58	208.67	217.16	206.64	10.52	20.642	
1,700.00	1,698.70	1,636.30	1,613.85	5.87	6.43	30.19	81.07	236.10	240.51	229.37	11.14	21.592	
1,800.00	1,797.47	1,725.76	1,697.00	6.24	7.00	30.27	95.61	265.68	263.94	252.18	11.76	22.447	
1,900.00	1,895.62	1,814.52	1,778.47	6.63	7.61	30.53	111.17	297.32	287.43	275.05	12.38	23.215	
2,000.00	1,993.06	1,902.62	1,858.19	7.04	8.26	30.91	127.70	330.94	310.98	297.97	13.01	23.898	
2,100.00	2,089.64	1,990.05	1,936.14	7.48	8.97	31.40	145.16	366.47	334.58	320.92	13.66	24.494	
2,200.00	2,185.27	2,076.82	2,012.28	7.94	9.71	31.96	163.53	403.83	358.25	343.92	14.33	25.005	
2,300.00	2,279.82	2,162.96	2,086.56	8.45	10.50	32.57	182.76	442.94	381.98	366.96	15.02	25.428	
2,400.00	2,373.17	2,248.45	2,158.98	8.99	11.33	33.23	202.81	483.73	405.78	390.03	15.75	25.762	
2,500.00	2,465.21	2,333.33	2,229.49	9.58	12.21	33.91	223.65	526.12	429.66	413.14	16.52	26.003	
2,574.08	2,532.50	2,395.82	2,280.50	10.04	12.88	34.44	239.58	558.52	447.41	430.28	17.13	26.123	
2,600.00	2,555.89	2,417.58	2,298.07	10.21	13.13	34.69	245.24	570.03	453.72	436.38	17.34	26.160	
2,700.00	2,646.16	2,512.23	2,374.08	10.88	14.20	35.69	270.12	620.64	478.88	460.46	18.42	25.991	
2,800.00	2,736.44	2,608.67	2,451.52	11.57	15.32	36.60	295.49	672.23	504.20	484.62	19.58	25.751	
2,900.00	2,826.71	2,705.12	2,528.96	12.27	16.45	37.43	320.85	723.82	529.62	508.85	20.77	25.500	
3,000.00	2,916.98	2,801.56	2,606.39	13.00	17.59	38.18	346.21	775.41	555.13	533.15	21.99	25.245	
3,100.00	3,007.25	2,902.00	2,683.83	13.73	18.78	38.87	371.57	827.00	580.73	557.47	23.26	24.964	
3,200.00	3,097.52	3,005.55	2,761.27	14.48	20.02	39.50	396.94	878.59	606.40	581.82	24.58	24.669	
3,300.00	3,187.80	3,109.11	2,838.70	15.23	21.27	40.07	422.30	930.18	632.14	606.22	25.92	24.386	
3,400.00	3,278.07	3,187.33	2,916.14	15.99	22.22	40.61	447.66	981.77	657.93	630.81	27.12	24.264	
3,500.00	3,368.34	3,283.77	2,993.58	16.76	23.39	41.10	473.03	1,033.36	683.77	655.32	28.44	24.039	
3,600.00	3,458.61	3,380.22	3,071.01	17.54	24.56	41.56	498.39	1,084.95	709.65	679.86	29.79	23.823	
3,700.00	3,548.89	3,476.66	3,148.45	18.32	25.74	41.98	523.75	1,136.54	735.57	704.42	31.15	23.617	
3,800.00	3,639.16	3,573.10	3,225.89	19.10	26.92	42.38	549.12	1,188.13	761.53	729.01	32.51	23.421	
3,900.00	3,729.43	3,669.55	3,303.32	19.89	28.11	42.75	574.48	1,239.72	787.51	753.62	33.89	23.235	
4,000.00	3,819.70	3,765.99	3,380.76	20.69	29.29	43.09	599.84	1,291.31	813.53	778.25	35.28	23.057	
4,100.00	3,909.98	3,862.43	3,458.20	21.48	30.48	43.42	625.21	1,342.90	839.57	802.89	36.68	22.889	
4,200.00	4,000.25	3,958.88	3,535.63	22.28	31.67	43.72	650.57	1,394.49	865.64	827.55	38.09	22.728	
4,300.00	4,090.52	4,055.32	3,613.07	23.08	32.86	44.01	675.93	1,446.08	891.73	852.23	39.50	22.576	
4,400.00	4,180.79	4,151.76	3,690.51	23.88	34.05	44.28	701.30	1,497.67	917.84	876.92	40.92	22.430	
4,500.00	4,271.06	4,248.21	3,767.94	24.69	35.24	44.54	726.66	1,549.26	943.96	901.62	42.34	22.292	
4,600.00	4,361.34	4,344.65	3,845.38	25.49	36.43	44.78	752.02	1,600.85	970.11	926.33	43.78	22.161	
4,700.00	4,451.61	4,441.09	3,922.82	26.30	37.63	45.01	777.39	1,652.44	996.26	951.05	45.21	22.036	
4,800.00	4,541.88	4,537.53	4,000.25	27.11	38.82	45.23	802.75	1,704.03	1,022.44	975.78	46.65	21.916	
4,900.00	4,632.15	4,633.98	4,077.69	27.92	40.02	45.43	828.11	1,755.62	1,048.62	1,000.53	48.10	21.803	
5,000.00	4,722.43	4,730.42	4,155.13	28.74	41.22	45.63	853.48	1,807.21	1,074.82	1,025.27	49.54	21.694	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,826.86	4,232.56	29.55	42.41	45.82	878.84	1,858.80	1,101.03	1,050.03	51.00	21.590	
5,200.00	4,902.97	4,923.31	4,310.00	30.37	43.61	46.00	904.20	1,910.39	1,127.25	1,074.80	52.45	21.491	
5,300.00	4,993.24	5,019.75	4,387.44	31.18	44.81	46.17	929.57	1,961.98	1,153.48	1,099.57	53.91	21.396	
5,400.00	5,083.51	5,116.19	4,464.87	32.00	46.01	46.33	954.93	2,013.57	1,179.71	1,124.34	55.37	21.305	
5,500.00	5,173.79	5,212.64	4,542.31	32.82	47.21	46.49	980.29	2,065.17	1,205.96	1,149.13	56.84	21.218	
5,600.00	5,264.06	5,309.08	4,619.75	33.63	48.41	46.64	1,005.65	2,116.76	1,232.22	1,173.91	58.30	21.135	
5,700.00	5,354.33	5,405.52	4,697.18	34.45	49.61	46.78	1,031.02	2,168.35	1,258.48	1,198.71	59.77	21.055	
5,800.00	5,444.60	5,501.96	4,774.62	35.27	50.81	46.92	1,056.38	2,219.94	1,284.75	1,223.51	61.24	20.978	
5,900.00	5,534.88	5,598.41	4,852.06	36.09	52.01	47.05	1,081.74	2,271.53	1,311.02	1,248.31	62.72	20.904	
6,000.00	5,625.15	5,705.15	4,929.49	36.91	53.34	47.18	1,107.11	2,323.12	1,337.31	1,273.04	64.27	20.808	
6,100.00	5,715.42	5,808.71	5,006.93	37.74	54.64	47.30	1,132.47	2,374.71	1,363.59	1,297.79	65.80	20.723	
6,200.00	5,805.69	5,887.74	5,084.37	38.56	55.62	47.41	1,157.83	2,426.30	1,389.89	1,322.74	67.15	20.700	
6,300.00	5,895.96	5,984.18	5,161.80	39.38	56.82	47.53	1,183.20	2,477.89	1,416.19	1,347.56	68.63	20.636	
6,400.00	5,986.24	6,080.62	5,239.24	40.20	58.03	47.64	1,208.56	2,529.48	1,442.49	1,372.38	70.11	20.575	
6,500.00	6,076.51	6,177.07	5,316.68	41.03	59.23	47.74	1,233.92	2,581.07	1,468.80	1,397.21	71.59	20.517	
6,600.00	6,166.78	6,273.51	5,394.11	41.85	60.43	47.84	1,259.29	2,632.66	1,495.11	1,422.04	73.08	20.460	
6,700.00	6,257.05	6,369.95	5,471.55	42.67	61.64	47.94	1,284.65	2,684.25	1,521.43	1,446.87	74.56	20.405	
6,800.00	6,347.33	6,466.40	5,548.99	43.50	62.84	48.03	1,310.01	2,735.84	1,547.75	1,471.70	76.05	20.352	
6,900.00	6,437.60	6,562.84	5,626.42	44.32	64.04	48.13	1,335.38	2,787.43	1,574.07	1,496.54	77.54	20.301	
7,000.00	6,527.87	6,659.28	5,703.86	45.15	65.25	48.21	1,360.74	2,839.02	1,600.40	1,521.38	79.02	20.252	
7,100.00	6,618.14	6,755.72	5,781.30	45.98	66.45	48.30	1,386.10	2,890.61	1,626.73	1,546.22	80.51	20.204	
7,200.00	6,708.41	6,852.17	5,858.73	46.80	67.66	48.38	1,411.47	2,942.20	1,653.07	1,571.06	82.01	20.158	
7,300.00	6,798.69	6,948.61	5,936.17	47.63	68.86	48.46	1,436.83	2,993.79	1,679.41	1,595.91	83.50	20.113	
7,400.00	6,888.96	7,045.05	6,013.61	48.45	70.07	48.54	1,462.19	3,045.38	1,705.75	1,620.76	84.99	20.070	
7,500.00	6,979.23	7,141.50	6,091.04	49.28	71.27	48.61	1,487.56	3,096.97	1,732.09	1,645.61	86.48	20.028	
7,600.00	7,069.50	7,237.94	6,168.48	50.11	72.48	48.69	1,512.92	3,148.56	1,758.44	1,670.46	87.98	19.987	
7,692.09	7,152.63	7,326.75	6,239.79	50.87	73.59	48.75	1,536.27	3,196.06	1,782.70	1,693.35	89.36	19.950	
7,700.00	7,159.79	7,334.39	6,245.92	50.93	73.68	47.76	1,538.28	3,200.15	1,784.78	1,695.31	89.47	19.948	
7,750.00	7,205.70	7,382.63	6,284.66	51.32	74.29	39.97	1,550.97	3,225.96	1,797.72	1,707.62	90.10	19.953	
7,800.00	7,252.52	7,430.64	6,323.20	51.66	74.89	29.31	1,563.60	3,251.64	1,810.23	1,719.69	90.54	19.994	
7,850.00	7,299.89	7,478.04	6,361.26	51.96	75.48	15.97	1,576.06	3,276.99	1,822.27	1,731.48	90.79	20.071	
7,900.00	7,347.44	7,524.47	6,398.54	52.20	76.06	1.34	1,588.27	3,301.83	1,833.81	1,742.96	90.85	20.185	
7,950.00	7,394.83	7,569.57	6,434.76	52.39	76.62	-12.43	1,600.13	3,325.96	1,844.86	1,754.14	90.72	20.336	
8,000.00	7,441.68	7,613.02	6,469.64	52.53	77.17	-23.87	1,611.56	3,349.20	1,855.46	1,765.05	90.41	20.523	
8,050.00	7,487.65	7,654.47	6,502.92	52.62	77.68	-32.72	1,622.46	3,371.37	1,865.66	1,775.73	89.92	20.747	
8,100.00	7,532.37	7,693.61	6,534.35	52.67	78.17	-39.40	1,632.75	3,392.30	1,875.53	1,786.25	89.28	21.008	
8,150.00	7,575.52	7,730.13	6,563.68	52.67	78.63	-44.42	1,642.36	3,411.84	1,885.16	1,796.67	88.48	21.305	
8,200.00	7,616.76	7,763.78	6,590.69	52.63	79.05	-48.21	1,651.21	3,429.84	1,894.63	1,807.08	87.56	21.639	
8,250.00	7,655.77	7,794.28	6,615.18	52.55	79.43	-51.09	1,659.23	3,446.16	1,904.05	1,817.53	86.52	22.007	
8,300.00	7,692.27	7,821.40	6,636.96	52.44	79.77	-53.25	1,666.36	3,460.67	1,913.48	1,828.09	85.39	22.409	
8,350.00	7,725.97	7,844.95	6,655.86	52.29	80.06	-54.84	1,672.55	3,473.26	1,923.01	1,838.82	84.19	22.841	
8,400.00	7,756.62	7,864.73	6,671.75	52.12	80.31	-55.93	1,677.76	3,483.84	1,932.70	1,849.74	82.95	23.299	
8,450.00	7,783.98	7,880.60	6,684.49	51.92	80.51	-56.60	1,681.93	3,492.33	1,942.58	1,860.88	81.70	23.777	
8,500.00	7,807.85	7,907.56	6,694.00	51.70	80.85	-56.90	1,685.04	3,498.67	1,952.69	1,872.13	80.56	24.239	
8,550.00	7,828.05	7,900.16	6,700.19	51.45	80.76	-56.84	1,687.07	3,502.80	1,963.00	1,883.74	79.26	24.766	
8,600.00	7,844.41	7,903.70	6,703.03	51.20	80.80	-56.47	1,688.00	3,504.69	1,973.49	1,895.37	78.13	25.260	
8,650.00	7,856.82	7,903.03	6,702.50	50.93	80.79	-55.81	1,687.83	3,504.33	1,984.11	1,907.03	77.07	25.743	
8,700.00	7,865.18	7,901.84	6,698.59	50.65	80.78	-54.89	1,686.55	3,501.72	1,994.75	1,918.61	76.14	26.197	
8,750.00	7,869.43	7,889.12	6,691.33	50.36	80.62	-53.73	1,684.17	3,496.89	2,005.32	1,930.04	75.28	26.638	
8,776.25	7,870.00	7,882.73	6,686.20	50.21	80.54	-53.04	1,682.49	3,493.47	2,010.79	1,935.90	74.89	26.851	
8,800.00	7,870.00	7,876.44	6,681.15	50.08	80.46	-52.86	1,680.84	3,490.11	2,015.83	1,941.27	74.56	27.036	
8,900.00	7,870.00	7,849.96	6,659.89	49.53	80.13	-52.12	1,673.87	3,475.94	2,039.75	1,966.23	73.51	27.746	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,823.48	6,638.62	49.01	79.80	-51.38	1,666.91	3,461.78	2,067.89	1,994.90	72.98	28.334	
9,100.00	7,870.00	7,803.00	6,617.36	48.52	79.54	-50.64	1,659.94	3,447.61	2,100.08	2,027.12	72.96	28.782	
9,200.00	7,870.00	7,770.52	6,596.10	48.06	79.13	-49.91	1,652.98	3,433.45	2,136.15	2,062.84	73.31	29.140	
9,300.00	7,870.00	7,744.04	6,574.84	47.63	78.80	-49.17	1,646.02	3,419.28	2,175.89	2,101.84	74.05	29.384	
9,400.00	7,870.00	7,717.56	6,553.58	47.22	78.47	-48.44	1,639.05	3,405.12	2,219.12	2,144.02	75.10	29.551	
9,500.00	7,870.00	7,708.92	6,532.32	46.83	78.36	-47.71	1,632.09	3,390.95	2,265.63	2,189.15	76.48	29.625	
9,600.00	7,870.00	7,664.60	6,511.06	46.48	77.81	-46.98	1,625.12	3,376.79	2,315.22	2,237.39	77.83	29.747	
9,700.00	7,870.00	10,638.12	7,870.00	46.14	90.80	-90.02	339.76	4,276.31	2,359.30	2,276.55	82.75	28.511	
9,800.00	7,870.00	10,738.12	7,870.00	45.83	90.60	-90.02	239.76	4,275.98	2,359.31	2,276.23	83.08	28.398	
9,900.00	7,870.00	10,838.12	7,870.00	45.54	90.41	-90.02	139.76	4,275.64	2,359.31	2,275.75	83.56	28.236	
10,000.00	7,870.00	10,938.12	7,870.00	45.27	90.24	-90.02	39.76	4,275.30	2,359.31	2,275.13	84.18	28.027	
10,100.00	7,870.00	11,038.12	7,870.00	45.03	90.09	-90.02	-60.24	4,274.96	2,359.31	2,274.37	84.95	27.774	
10,200.00	7,870.00	11,138.12	7,870.00	44.82	89.95	-90.02	-160.24	4,274.63	2,359.32	2,273.46	85.85	27.481	
10,300.00	7,870.00	11,238.12	7,870.00	44.66	89.83	-90.02	-260.24	4,274.29	2,359.32	2,272.42	86.89	27.151	
10,400.00	7,870.00	11,338.12	7,870.00	44.56	89.73	-90.02	-360.24	4,273.95	2,359.32	2,271.26	88.07	26.791	
10,500.00	7,870.00	11,438.12	7,870.00	44.58	89.65	-90.02	-460.24	4,273.62	2,359.32	2,269.96	89.36	26.402	
10,600.00	7,870.00	11,538.12	7,870.00	44.82	89.58	-90.02	-560.24	4,273.28	2,359.33	2,268.55	90.77	25.991	
10,700.00	7,870.00	11,638.12	7,870.00	45.36	89.53	-90.02	-660.24	4,272.94	2,359.33	2,267.03	92.30	25.561	
10,800.00	7,870.00	11,738.12	7,870.00	46.15	89.51	-90.02	-760.24	4,272.61	2,359.33	2,265.39	93.94	25.116	
10,900.00	7,870.00	11,838.12	7,870.00	47.09	89.50	-90.02	-860.24	4,272.27	2,359.33	2,263.66	95.68	24.659	
11,000.00	7,870.00	11,938.12	7,870.00	48.13	89.51	-90.02	-960.24	4,271.93	2,359.34	2,261.82	97.51	24.196	
11,100.00	7,870.00	12,038.12	7,870.00	49.22	89.55	-90.02	-1,060.23	4,271.59	2,359.34	2,259.90	99.44	23.727	
11,200.00	7,870.00	12,138.12	7,870.00	50.37	89.61	-90.02	-1,160.23	4,271.26	2,359.34	2,257.89	101.45	23.256	
11,300.00	7,870.00	12,238.12	7,870.00	51.55	89.70	-90.02	-1,260.23	4,270.92	2,359.34	2,255.80	103.54	22.786	
11,400.00	7,870.00	12,338.12	7,870.00	52.76	89.81	-90.02	-1,360.23	4,270.58	2,359.35	2,253.63	105.71	22.318	
11,500.00	7,870.00	12,438.12	7,870.00	54.00	89.95	-90.02	-1,460.23	4,270.25	2,359.35	2,251.39	107.96	21.855	
11,600.00	7,870.00	12,538.12	7,870.00	55.27	90.12	-90.02	-1,560.23	4,269.91	2,359.35	2,249.09	110.26	21.397	
11,700.00	7,870.00	12,638.12	7,870.00	56.56	90.32	-90.02	-1,660.23	4,269.57	2,359.35	2,246.72	112.64	20.947	
11,800.00	7,870.00	12,738.12	7,870.00	57.88	90.55	-90.02	-1,760.23	4,269.24	2,359.36	2,244.29	115.07	20.504	
11,900.00	7,870.00	12,838.12	7,870.00	59.21	90.81	-90.02	-1,860.23	4,268.90	2,359.36	2,241.80	117.56	20.070	
12,000.00	7,870.00	12,938.12	7,870.00	60.57	91.11	-90.02	-1,960.23	4,268.56	2,359.36	2,239.26	120.10	19.646	
12,100.00	7,870.00	13,038.12	7,870.00	61.94	91.45	-90.02	-2,060.23	4,268.22	2,359.36	2,236.68	122.68	19.231	
12,200.00	7,870.00	13,138.12	7,870.00	63.33	91.82	-90.02	-2,160.23	4,267.89	2,359.37	2,234.05	125.32	18.827	
12,300.00	7,870.00	13,238.12	7,870.00	64.74	92.24	-90.02	-2,260.23	4,267.55	2,359.37	2,231.37	128.00	18.433	
12,400.00	7,870.00	13,338.12	7,870.00	66.16	92.70	-90.02	-2,360.23	4,267.21	2,359.37	2,228.65	130.72	18.050	
12,500.00	7,870.00	13,438.12	7,870.00	67.59	93.20	-90.02	-2,460.23	4,266.88	2,359.37	2,225.90	133.47	17.677	
12,600.00	7,870.00	13,538.12	7,870.00	69.04	93.74	-90.02	-2,560.23	4,266.54	2,359.38	2,223.11	136.26	17.315	
12,700.00	7,870.00	13,638.12	7,870.00	70.51	94.33	-90.02	-2,660.23	4,266.20	2,359.38	2,220.29	139.09	16.963	
12,800.00	7,870.00	13,738.12	7,870.00	71.98	94.96	-90.02	-2,760.23	4,265.86	2,359.38	2,217.43	141.95	16.622	
12,900.00	7,870.00	13,838.12	7,870.00	73.47	95.65	-90.02	-2,860.22	4,265.53	2,359.38	2,214.55	144.83	16.290	
13,000.00	7,870.00	13,938.12	7,870.00	74.96	96.37	-90.02	-2,960.22	4,265.19	2,359.39	2,211.64	147.75	15.969	
13,100.00	7,870.00	14,038.12	7,870.00	76.47	97.14	-90.02	-3,060.22	4,264.85	2,359.39	2,208.70	150.69	15.657	
13,200.00	7,870.00	14,138.12	7,870.00	77.99	97.96	-90.02	-3,160.22	4,264.52	2,359.39	2,205.73	153.66	15.355	
13,300.00	7,870.00	14,238.12	7,870.00	79.51	98.82	-90.02	-3,260.22	4,264.18	2,359.39	2,202.74	156.65	15.062	
13,400.00	7,870.00	14,338.12	7,870.00	81.05	99.72	-90.02	-3,360.22	4,263.84	2,359.39	2,199.73	159.66	14.778	
13,500.00	7,870.00	14,438.12	7,870.00	82.59	100.66	-90.02	-3,460.22	4,263.51	2,359.40	2,196.70	162.69	14.502	
13,600.00	7,870.00	14,538.12	7,870.00	84.14	101.64	-90.02	-3,560.22	4,263.17	2,359.40	2,193.65	165.75	14.235	
13,700.00	7,870.00	14,638.12	7,870.00	85.70	102.66	-90.02	-3,660.22	4,262.83	2,359.40	2,190.58	168.82	13.976	
13,800.00	7,870.00	14,738.12	7,870.00	87.26	103.71	-90.02	-3,760.22	4,262.49	2,359.40	2,187.50	171.91	13.725	
13,900.00	7,870.00	14,838.12	7,870.00	88.83	104.80	-90.02	-3,860.22	4,262.16	2,359.41	2,184.39	175.01	13.481	
14,000.00	7,870.00	14,938.12	7,870.00	90.41	105.92	-90.02	-3,960.22	4,261.82	2,359.41	2,181.27	178.14	13.245	
14,100.00	7,870.00	15,038.12	7,870.00	92.00	107.08	-90.02	-4,060.22	4,261.48	2,359.41	2,178.14	181.27	13.016	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	15,138.12	7,870.00	93.59	108.26	-90.02	-4,160.22	4,261.15	2,359.41	2,174.99	184.42	12.793	
14,300.00	7,870.00	15,238.12	7,870.00	95.18	109.46	-90.02	-4,260.22	4,260.81	2,359.42	2,171.83	187.59	12.578	
14,400.00	7,870.00	15,338.12	7,870.00	96.79	110.70	-90.02	-4,360.22	4,260.47	2,359.42	2,168.65	190.77	12.368	
14,500.00	7,870.00	15,438.12	7,870.00	98.39	111.95	-90.02	-4,460.22	4,260.13	2,359.42	2,165.46	193.96	12.165	
14,600.00	7,870.00	15,538.12	7,870.00	100.00	113.23	-90.02	-4,560.22	4,259.80	2,359.42	2,162.26	197.16	11.967	
14,700.00	7,870.00	15,638.12	7,870.00	101.62	114.53	-90.02	-4,660.21	4,259.46	2,359.43	2,159.05	200.37	11.775	
14,800.00	7,870.00	15,738.12	7,870.00	103.24	115.85	-90.02	-4,760.21	4,259.12	2,359.43	2,155.83	203.60	11.589	
14,900.00	7,870.00	15,838.12	7,870.00	104.87	117.19	-90.02	-4,860.21	4,258.79	2,359.43	2,152.60	206.83	11.408	
15,000.00	7,870.00	15,938.12	7,870.00	106.50	118.54	-90.02	-4,960.21	4,258.45	2,359.43	2,149.36	210.08	11.231	
15,100.00	7,870.00	16,038.12	7,870.00	108.13	119.91	-90.02	-5,060.21	4,258.11	2,359.44	2,146.11	213.33	11.060	
15,200.00	7,870.00	16,138.12	7,870.00	109.77	121.30	-90.02	-5,160.21	4,257.78	2,359.44	2,142.85	216.59	10.894	
15,300.00	7,870.00	16,238.12	7,870.00	111.41	122.70	-90.02	-5,260.21	4,257.44	2,359.44	2,139.58	219.86	10.732	
15,400.00	7,870.00	16,338.12	7,870.00	113.05	124.12	-90.02	-5,360.21	4,257.10	2,359.44	2,136.31	223.14	10.574	
15,500.00	7,870.00	16,438.12	7,870.00	114.70	125.54	-90.02	-5,460.21	4,256.76	2,359.45	2,133.02	226.42	10.420	
15,600.00	7,870.00	16,538.12	7,870.00	116.35	126.98	-90.02	-5,560.21	4,256.43	2,359.45	2,129.73	229.72	10.271	
15,700.00	7,870.00	16,638.12	7,870.00	118.00	128.43	-90.02	-5,660.21	4,256.09	2,359.45	2,126.43	233.02	10.126	
15,800.00	7,870.00	16,738.12	7,870.00	119.66	129.90	-90.02	-5,760.21	4,255.75	2,359.45	2,123.13	236.33	9.984	
15,900.00	7,870.00	16,838.12	7,870.00	121.32	131.37	-90.02	-5,860.21	4,255.42	2,359.46	2,119.82	239.64	9.846	
16,000.00	7,870.00	16,938.12	7,870.00	122.98	132.85	-90.02	-5,960.21	4,255.08	2,359.46	2,116.50	242.96	9.711	
16,100.00	7,870.00	17,038.12	7,870.00	124.65	134.34	-90.02	-6,060.21	4,254.74	2,359.46	2,113.18	246.28	9.580	
16,200.00	7,870.00	17,138.12	7,870.00	126.32	135.84	-90.02	-6,160.21	4,254.40	2,359.46	2,109.85	249.62	9.452	
16,300.00	7,870.00	17,238.12	7,870.00	127.99	137.35	-90.02	-6,260.21	4,254.07	2,359.47	2,106.51	252.95	9.328	
16,400.00	7,870.00	17,338.12	7,870.00	129.66	138.86	-90.02	-6,360.20	4,253.73	2,359.47	2,103.17	256.30	9.206	
16,500.00	7,870.00	17,438.12	7,870.00	131.33	140.38	-90.02	-6,460.20	4,253.39	2,359.47	2,099.83	259.64	9.087	
16,600.00	7,870.00	17,538.12	7,870.00	133.01	141.91	-90.02	-6,560.20	4,253.06	2,359.47	2,096.48	262.99	8.972	
16,700.00	7,870.00	17,638.12	7,870.00	134.69	143.45	-90.02	-6,660.20	4,252.72	2,359.48	2,093.12	266.35	8.858	
16,800.00	7,870.00	17,738.12	7,870.00	136.37	144.99	-90.02	-6,760.20	4,252.38	2,359.48	2,089.77	269.71	8.748	
16,900.00	7,870.00	17,838.12	7,870.00	138.06	146.54	-90.02	-6,860.20	4,252.05	2,359.48	2,086.40	273.08	8.640	
17,000.00	7,870.00	17,938.12	7,870.00	139.74	148.10	-90.02	-6,960.20	4,251.71	2,359.48	2,083.03	276.45	8.535	
17,100.00	7,870.00	18,038.12	7,870.00	141.43	149.66	-90.02	-7,060.20	4,251.37	2,359.49	2,079.66	279.82	8.432	
17,200.00	7,870.00	18,138.12	7,870.00	143.12	151.22	-90.02	-7,160.20	4,251.03	2,359.49	2,076.29	283.20	8.331	
17,300.00	7,870.00	18,238.12	7,870.00	144.81	152.79	-90.02	-7,260.20	4,250.70	2,359.49	2,072.91	286.58	8.233	
17,400.00	7,870.00	18,338.12	7,870.00	146.50	154.37	-90.02	-7,360.20	4,250.36	2,359.49	2,069.53	289.97	8.137	
17,500.00	7,870.00	18,438.12	7,870.00	148.19	155.95	-90.02	-7,460.20	4,250.02	2,359.50	2,066.14	293.36	8.043	
17,600.00	7,870.00	18,538.12	7,870.00	149.89	157.54	-90.02	-7,560.20	4,249.69	2,359.50	2,062.75	296.75	7.951	
17,700.00	7,870.00	18,638.12	7,870.00	151.59	159.13	-90.02	-7,660.20	4,249.35	2,359.50	2,059.36	300.15	7.861	
17,800.00	7,870.00	18,738.12	7,870.00	153.29	160.72	-90.02	-7,760.20	4,249.01	2,359.50	2,055.96	303.54	7.773	
17,900.00	7,870.00	18,838.12	7,870.00	154.99	162.32	-90.02	-7,860.20	4,248.68	2,359.51	2,052.56	306.95	7.687	
18,000.00	7,870.00	18,938.12	7,870.00	156.69	163.92	-90.02	-7,960.20	4,248.34	2,359.51	2,049.16	310.35	7.603	
18,100.00	7,870.00	19,038.12	7,870.00	158.39	165.53	-90.02	-8,060.20	4,248.00	2,359.51	2,045.75	313.76	7.520	
18,200.00	7,870.00	19,138.12	7,870.00	160.09	167.13	-90.02	-8,160.19	4,247.66	2,359.51	2,042.34	317.17	7.439	
18,300.00	7,870.00	19,238.12	7,870.00	161.80	168.75	-90.02	-8,260.19	4,247.33	2,359.52	2,038.93	320.58	7.360	
18,400.00	7,870.00	19,338.12	7,870.00	163.51	170.36	-90.02	-8,360.19	4,246.99	2,359.52	2,035.52	324.00	7.282	
18,401.84	7,870.00	19,339.96	7,870.00	163.54	170.39	-90.02	-8,362.03	4,246.98	2,359.52	2,035.46	324.06	7.281	
18,455.45	7,870.00	19,383.51	7,870.00	164.45	171.10	-90.02	-8,405.58	4,246.84	2,359.54	2,033.53	326.01	7.238	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.52	-0.73	79.80	79.80				
100.00	100.00	102.00	98.00	0.13	0.14	90.52	-0.73	79.80	79.80	79.53	0.28	289.121	
200.00	200.00	202.00	198.00	0.49	0.50	90.52	-0.73	79.80	79.80	78.81	0.99	80.369	
300.00	300.00	302.00	298.00	0.85	0.86	90.52	-0.73	79.80	79.80	78.09	1.71	46.672	
400.00	400.00	402.00	398.00	1.21	1.22	90.52	-0.73	79.80	79.80	77.38	2.43	32.884	
500.00	500.00	498.00	498.00	1.57	1.56	90.52	-0.73	79.80	79.80	76.67	3.13	25.501	CC, ES
600.00	600.00	595.55	595.54	1.93	1.91	90.05	-0.06	81.25	81.29	77.45	3.83	21.206	
700.00	700.00	692.84	692.69	2.29	2.25	88.68	1.98	85.70	85.88	81.35	4.53	18.951	
800.00	800.00	789.68	789.19	2.64	2.60	86.70	5.37	93.10	93.67	88.44	5.23	17.920	
900.00	900.00	885.86	884.70	3.00	2.96	84.42	10.09	103.38	104.72	98.81	5.92	17.699	
1,000.00	1,000.00	981.18	978.92	3.36	3.34	82.13	16.09	116.44	119.09	112.49	6.60	18.046	
1,100.00	1,100.00	1,075.43	1,071.57	3.72	3.73	80.00	23.29	132.15	136.77	129.49	7.27	18.808	
1,200.00	1,200.00	1,168.43	1,162.39	4.08	4.15	78.11	31.65	150.36	157.72	149.79	7.93	19.878	
1,300.00	1,300.00	1,260.03	1,251.14	4.44	4.58	76.49	41.07	170.90	181.90	173.32	8.58	21.207	
1,400.00	1,399.98	1,350.48	1,338.04	4.79	5.05	32.12	51.54	193.70	207.80	198.58	9.21	22.550	
1,500.00	1,499.84	1,440.17	1,423.38	5.15	5.55	31.28	63.04	218.76	233.88	224.04	9.84	23.778	
1,600.00	1,599.45	1,529.10	1,507.11	5.51	6.08	30.83	75.54	246.00	260.06	249.61	10.45	24.880	
1,700.00	1,698.70	1,617.29	1,589.18	5.87	6.65	30.67	88.99	275.33	286.31	275.24	11.07	25.869	
1,800.00	1,797.47	1,704.73	1,669.53	6.24	7.26	30.72	103.37	306.66	312.58	300.90	11.68	26.755	
1,900.00	1,895.62	1,791.45	1,748.15	6.63	7.91	30.92	118.63	339.92	338.87	326.57	12.30	27.542	
2,000.00	1,993.06	1,877.44	1,824.98	7.04	8.61	31.24	134.74	375.02	365.17	352.24	12.93	28.233	
2,100.00	2,089.64	1,962.73	1,899.99	7.48	9.35	31.65	151.66	411.89	391.48	377.90	13.58	28.831	
2,200.00	2,185.27	2,047.31	1,973.17	7.94	10.13	32.13	169.35	450.44	417.80	403.56	14.24	29.335	
2,300.00	2,279.82	2,131.22	2,044.49	8.45	10.95	32.66	187.78	490.61	444.14	429.21	14.93	29.743	
2,400.00	2,373.17	2,214.45	2,113.93	8.99	11.81	33.23	206.92	532.32	470.50	454.84	15.66	30.052	
2,500.00	2,465.21	2,297.03	2,181.47	9.58	12.71	33.83	226.73	575.48	496.88	480.46	16.42	30.258	
2,574.08	2,532.50	2,357.79	2,230.28	10.04	13.41	34.29	241.82	608.37	516.44	499.42	17.02	30.339	
2,600.00	2,555.89	2,378.94	2,247.10	10.21	13.66	34.52	247.17	620.04	523.38	506.14	17.24	30.364	
2,700.00	2,646.16	2,465.05	2,314.66	10.88	14.70	35.39	269.43	668.55	551.74	533.56	18.18	30.347	
2,800.00	2,736.44	2,560.40	2,389.15	11.57	15.88	36.25	294.26	722.66	580.77	561.44	19.33	30.040	
2,900.00	2,826.71	2,655.75	2,463.63	12.27	17.07	37.02	319.09	776.76	609.91	589.39	20.52	29.724	
3,000.00	2,916.98	2,751.10	2,538.11	13.00	18.27	37.72	343.92	830.87	639.14	617.40	21.73	29.407	
3,100.00	3,007.25	2,846.45	2,612.60	13.73	19.49	38.36	368.74	884.97	668.45	645.47	22.98	29.092	
3,200.00	3,097.52	2,941.80	2,687.08	14.48	20.71	38.95	393.57	939.07	697.83	673.59	24.24	28.786	
3,300.00	3,187.80	3,037.14	2,761.57	15.23	21.93	39.49	418.40	993.18	727.28	701.75	25.53	28.489	
3,400.00	3,278.07	3,132.49	2,836.05	15.99	23.16	39.99	443.22	1,047.28	756.78	729.94	26.83	28.203	
3,500.00	3,368.34	3,227.84	2,910.53	16.76	24.40	40.45	468.05	1,101.39	786.32	758.17	28.15	27.930	
3,600.00	3,458.61	3,323.19	2,985.02	17.54	25.63	40.88	492.88	1,155.49	815.92	786.43	29.49	27.669	
3,700.00	3,548.89	3,418.54	3,059.50	18.32	26.87	41.28	517.70	1,209.60	845.55	814.71	30.84	27.420	
3,800.00	3,639.16	3,513.89	3,133.99	19.10	28.12	41.65	542.53	1,263.70	875.21	843.01	32.20	27.183	
3,900.00	3,729.43	3,609.24	3,208.47	19.89	29.36	42.00	567.36	1,317.80	904.91	871.34	33.57	26.958	
4,000.00	3,819.70	3,704.59	3,282.96	20.69	30.61	42.32	592.18	1,371.91	934.63	899.69	34.95	26.745	
4,100.00	3,909.98	3,800.06	3,357.44	21.48	31.86	42.63	617.01	1,426.01	964.38	928.05	36.33	26.542	
4,200.00	4,000.25	3,904.71	3,431.92	22.28	33.24	42.92	641.84	1,480.12	994.16	956.36	37.80	26.302	
4,300.00	4,090.52	4,009.36	3,506.41	23.08	34.61	43.19	666.67	1,534.22	1,023.95	984.68	39.27	26.075	
4,400.00	4,180.79	4,085.99	3,580.89	23.88	35.62	43.44	691.49	1,588.32	1,053.77	1,013.23	40.54	25.992	
4,500.00	4,271.06	4,181.34	3,655.38	24.69	36.88	43.68	716.32	1,642.43	1,083.60	1,041.64	41.96	25.827	
4,600.00	4,361.34	4,276.69	3,729.86	25.49	38.13	43.91	741.15	1,696.53	1,113.45	1,070.07	43.38	25.670	
4,700.00	4,451.61	4,372.04	3,804.35	26.30	39.39	44.13	765.97	1,750.64	1,143.32	1,098.51	44.80	25.520	
4,800.00	4,541.88	4,467.39	3,878.83	27.11	40.65	44.33	790.80	1,804.74	1,173.19	1,126.96	46.23	25.377	
4,900.00	4,632.15	4,562.74	3,953.31	27.92	41.91	44.53	815.63	1,858.85	1,203.09	1,155.42	47.66	25.241	
5,000.00	4,722.43	4,658.09	4,027.80	28.74	43.17	44.71	840.45	1,912.95	1,232.99	1,183.89	49.10	25.111	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,753.44	4,102.28	29.55	44.43	44.89	865.28	1,967.05	1,262.91	1,212.36	50.54	24.987	
5,200.00	4,902.97	4,848.79	4,176.77	30.37	45.69	45.06	890.11	2,021.16	1,292.83	1,240.85	51.99	24.869	
5,300.00	4,993.24	4,944.14	4,251.25	31.18	46.95	45.22	914.94	2,075.26	1,322.77	1,269.33	53.43	24.755	
5,400.00	5,083.51	5,039.49	4,325.73	32.00	48.21	45.37	939.76	2,129.37	1,352.71	1,297.83	54.88	24.647	
5,500.00	5,173.79	5,134.83	4,400.22	32.82	49.48	45.52	964.59	2,183.47	1,382.67	1,326.33	56.34	24.543	
5,600.00	5,264.06	5,230.18	4,474.70	33.63	50.74	45.66	989.42	2,237.58	1,412.63	1,354.84	57.79	24.443	
5,700.00	5,354.33	5,325.53	4,549.19	34.45	52.00	45.80	1,014.24	2,291.68	1,442.60	1,383.35	59.25	24.348	
5,800.00	5,444.60	5,420.88	4,623.67	35.27	53.27	45.93	1,039.07	2,345.78	1,472.57	1,411.86	60.71	24.256	
5,900.00	5,534.88	5,516.23	4,698.16	36.09	54.53	46.05	1,063.90	2,399.89	1,502.56	1,440.38	62.17	24.168	
6,000.00	5,625.15	5,611.58	4,772.64	36.91	55.80	46.17	1,088.72	2,453.99	1,532.54	1,468.91	63.63	24.084	
6,100.00	5,715.42	5,706.93	4,847.12	37.74	57.06	46.28	1,113.55	2,508.10	1,562.54	1,497.44	65.10	24.002	
6,200.00	5,805.69	5,802.28	4,921.61	38.56	58.33	46.40	1,138.38	2,562.20	1,592.54	1,525.97	66.57	23.924	
6,300.00	5,895.96	5,902.37	4,996.09	39.38	59.65	46.50	1,163.20	2,616.30	1,622.54	1,554.47	68.07	23.836	
6,400.00	5,986.24	5,992.98	5,070.58	40.20	60.86	46.60	1,188.03	2,670.41	1,652.55	1,583.05	69.51	23.776	
6,500.00	6,076.51	6,088.33	5,145.06	41.03	62.12	46.70	1,212.86	2,724.51	1,682.57	1,611.59	70.98	23.706	
6,600.00	6,166.78	6,183.68	5,219.54	41.85	63.39	46.80	1,237.69	2,778.62	1,712.59	1,640.14	72.45	23.638	
6,700.00	6,257.05	6,279.03	5,294.03	42.67	64.66	46.89	1,262.51	2,832.72	1,742.61	1,668.69	73.92	23.573	
6,800.00	6,347.33	6,374.38	5,368.51	43.50	65.92	46.98	1,287.34	2,886.83	1,772.64	1,697.24	75.40	23.510	
6,900.00	6,437.60	6,469.73	5,443.00	44.32	67.19	47.07	1,312.17	2,940.93	1,802.67	1,725.79	76.88	23.449	
7,000.00	6,527.87	6,565.08	5,517.48	45.15	68.45	47.15	1,336.99	2,995.03	1,832.70	1,754.35	78.35	23.390	
7,100.00	6,618.14	6,660.43	5,591.97	45.98	69.72	47.23	1,361.82	3,049.14	1,862.74	1,782.91	79.83	23.333	
7,200.00	6,708.41	6,755.78	5,666.45	46.80	70.99	47.31	1,386.65	3,103.24	1,892.78	1,811.47	81.31	23.278	
7,300.00	6,798.69	6,851.13	5,740.93	47.63	72.26	47.39	1,411.47	3,157.35	1,922.83	1,840.04	82.79	23.225	
7,400.00	6,888.96	6,946.48	5,815.42	48.45	73.52	47.46	1,436.30	3,211.45	1,952.88	1,868.60	84.27	23.173	
7,500.00	6,979.23	7,041.83	5,889.90	49.28	74.79	47.53	1,461.13	3,265.56	1,982.93	1,897.17	85.76	23.123	
7,600.00	7,069.50	7,137.18	5,964.39	50.11	76.06	47.60	1,485.96	3,319.66	2,012.98	1,925.74	87.24	23.074	
7,692.09	7,152.63	7,224.98	6,032.98	50.87	77.23	47.66	1,508.82	3,369.48	2,040.66	1,952.05	88.61	23.031	
7,700.00	7,159.79	7,232.53	6,038.87	50.93	77.33	46.70	1,510.78	3,373.76	2,043.03	1,954.31	88.72	23.028	
7,750.00	7,205.70	7,280.23	6,076.13	51.32	77.96	39.14	1,523.20	3,400.83	2,057.87	1,968.52	89.35	23.031	
7,800.00	7,252.52	7,327.68	6,113.21	51.66	78.59	28.72	1,535.56	3,427.76	2,072.35	1,982.55	89.81	23.076	
7,850.00	7,299.89	7,374.54	6,149.81	51.96	79.21	15.65	1,547.76	3,454.35	2,086.40	1,996.31	90.08	23.160	
7,900.00	7,347.44	7,420.43	6,185.66	52.20	79.83	1.29	1,559.71	3,480.39	2,099.97	2,009.78	90.18	23.285	
7,950.00	7,394.83	7,465.02	6,220.49	52.39	80.42	-12.19	1,571.32	3,505.69	2,113.04	2,022.93	90.11	23.450	
8,000.00	7,441.68	7,507.96	6,254.03	52.53	80.99	-23.35	1,582.50	3,530.05	2,125.62	2,035.75	89.86	23.654	
8,050.00	7,487.65	7,548.92	6,286.03	52.62	81.53	-31.91	1,593.17	3,553.30	2,137.72	2,048.26	89.46	23.896	
8,100.00	7,532.37	7,587.60	6,316.25	52.67	82.05	-38.31	1,603.24	3,575.24	2,149.39	2,060.49	88.90	24.177	
8,150.00	7,575.52	7,623.70	6,344.44	52.67	82.53	-43.06	1,612.64	3,595.73	2,160.68	2,072.47	88.21	24.495	
8,200.00	7,616.76	7,656.94	6,370.41	52.63	82.97	-46.61	1,621.29	3,614.59	2,171.64	2,084.25	87.39	24.849	
8,250.00	7,655.77	7,687.07	6,393.95	52.55	83.37	-49.27	1,629.14	3,631.69	2,182.33	2,095.86	86.47	25.238	
8,300.00	7,692.27	7,713.87	6,414.88	52.44	83.73	-51.24	1,636.11	3,646.89	2,192.81	2,107.35	85.46	25.659	
8,350.00	7,725.97	7,737.12	6,433.04	52.29	84.04	-52.66	1,642.17	3,660.08	2,203.12	2,118.74	84.38	26.108	
8,400.00	7,756.62	7,756.65	6,448.30	52.12	84.30	-53.64	1,647.25	3,671.17	2,213.30	2,130.04	83.26	26.582	
8,450.00	7,783.98	7,772.32	6,460.54	51.92	84.51	-54.24	1,651.33	3,680.06	2,223.39	2,141.26	82.12	27.074	
8,500.00	7,807.85	7,784.00	6,469.67	51.70	84.66	-54.51	1,654.37	3,686.69	2,233.37	2,152.39	80.98	27.578	
8,550.00	7,828.05	7,808.40	6,475.61	51.45	84.99	-54.48	1,656.35	3,691.00	2,243.25	2,163.28	79.98	28.048	
8,600.00	7,844.41	7,804.92	6,478.32	51.20	84.94	-54.19	1,657.26	3,692.97	2,253.00	2,174.13	78.87	28.568	
8,650.00	7,856.82	7,805.61	6,477.78	50.93	84.95	-53.65	1,657.08	3,692.58	2,262.55	2,184.68	77.87	29.056	
8,700.00	7,865.18	7,789.54	6,474.00	50.65	84.73	-52.89	1,655.82	3,689.83	2,271.84	2,194.96	76.88	29.552	
8,750.00	7,869.43	7,780.58	6,467.00	50.36	84.62	-51.94	1,653.48	3,684.75	2,280.77	2,204.73	76.04	29.994	
8,776.25	7,870.00	7,774.25	6,462.05	50.21	84.53	-51.38	1,651.84	3,681.15	2,285.28	2,209.63	75.64	30.212	
8,800.00	7,870.00	7,768.02	6,457.18	50.08	84.45	-51.22	1,650.21	3,677.62	2,289.40	2,214.10	75.31	30.401	
8,900.00	7,870.00	7,741.79	6,436.69	49.53	84.10	-50.58	1,643.38	3,662.74	2,309.19	2,235.01	74.18	31.130	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,715.56	6,416.20	49.01	83.75	-49.94	1,636.55	3,647.85	2,332.81	2,259.31	73.50	31.738	
9,100.00	7,870.00	7,689.33	6,395.71	48.52	83.40	-49.30	1,629.72	3,632.97	2,360.14	2,286.88	73.26	32.216	
9,200.00	7,870.00	7,663.10	6,375.22	48.06	83.05	-48.66	1,622.89	3,618.08	2,391.05	2,317.63	73.42	32.567	
9,300.00	7,870.00	7,636.87	6,354.73	47.63	82.70	-48.02	1,616.06	3,603.20	2,425.42	2,351.48	73.94	32.804	
9,400.00	7,870.00	7,610.64	6,334.24	47.22	82.35	-47.38	1,609.24	3,588.32	2,463.08	2,388.32	74.76	32.945	
9,500.00	7,870.00	7,584.41	6,313.75	46.83	82.01	-46.75	1,602.41	3,573.43	2,503.90	2,428.05	75.85	33.013	
9,600.00	7,870.00	7,558.18	6,293.26	46.48	81.66	-46.12	1,595.58	3,558.55	2,547.72	2,470.59	77.14	33.029	
9,700.00	7,870.00	7,531.95	6,272.77	46.14	81.31	-45.48	1,588.75	3,543.67	2,594.40	2,515.81	78.58	33.015	
9,800.00	7,870.00	7,505.72	6,252.28	45.83	80.96	-44.85	1,581.92	3,528.78	2,643.77	2,563.63	80.14	32.989	
9,900.00	7,870.00	10,886.32	7,730.00	45.54	97.83	-87.05	138.64	4,595.62	2,682.85	2,596.82	86.02	31.188	
10,000.00	7,870.00	10,986.32	7,730.00	45.27	97.67	-87.05	38.64	4,595.28	2,682.85	2,596.19	86.66	30.958	
10,100.00	7,870.00	11,086.32	7,730.00	45.03	97.52	-87.05	-61.36	4,594.95	2,682.85	2,595.41	87.44	30.682	
10,200.00	7,870.00	11,186.32	7,730.00	44.82	97.38	-87.05	-161.36	4,594.61	2,682.85	2,594.50	88.35	30.365	
10,300.00	7,870.00	11,286.32	7,730.00	44.66	97.26	-87.05	-261.35	4,594.27	2,682.85	2,593.45	89.40	30.011	
10,400.00	7,870.00	11,386.32	7,730.00	44.56	97.15	-87.05	-361.35	4,593.93	2,682.85	2,592.29	90.57	29.623	
10,500.00	7,870.00	11,486.32	7,730.00	44.58	97.07	-87.05	-461.35	4,593.59	2,682.85	2,591.00	91.86	29.207	
10,600.00	7,870.00	11,586.32	7,730.00	44.82	96.99	-87.05	-561.35	4,593.25	2,682.85	2,589.59	93.26	28.767	
10,700.00	7,870.00	11,686.32	7,730.00	45.36	96.94	-87.05	-661.35	4,592.92	2,682.85	2,588.07	94.78	28.306	
10,800.00	7,870.00	11,786.32	7,730.00	46.15	96.90	-87.05	-761.35	4,592.58	2,682.86	2,586.45	96.40	27.830	
10,900.00	7,870.00	11,886.32	7,730.00	47.09	96.88	-87.05	-861.35	4,592.24	2,682.86	2,584.73	98.12	27.342	
11,000.00	7,870.00	11,986.32	7,730.00	48.13	96.88	-87.05	-961.35	4,591.90	2,682.86	2,582.92	99.94	26.844	
11,100.00	7,870.00	12,086.32	7,730.00	49.22	96.89	-87.05	-1,061.35	4,591.56	2,682.86	2,581.01	101.85	26.342	
11,200.00	7,870.00	12,186.32	7,730.00	50.37	96.93	-87.05	-1,161.35	4,591.22	2,682.86	2,579.02	103.84	25.837	
11,300.00	7,870.00	12,286.32	7,730.00	51.55	96.99	-87.05	-1,261.35	4,590.89	2,682.86	2,576.95	105.91	25.331	
11,400.00	7,870.00	12,386.32	7,730.00	52.76	97.07	-87.05	-1,361.35	4,590.55	2,682.86	2,574.81	108.06	24.828	
11,500.00	7,870.00	12,486.32	7,730.00	54.00	97.17	-87.05	-1,461.35	4,590.21	2,682.86	2,572.59	110.27	24.329	
11,600.00	7,870.00	12,586.32	7,730.00	55.27	97.29	-87.05	-1,561.35	4,589.87	2,682.86	2,570.31	112.56	23.835	
11,700.00	7,870.00	12,686.32	7,730.00	56.56	97.44	-87.05	-1,661.35	4,589.53	2,682.87	2,567.96	114.90	23.349	
11,800.00	7,870.00	12,786.32	7,730.00	57.88	97.62	-87.05	-1,761.35	4,589.19	2,682.87	2,565.56	117.31	22.870	
11,900.00	7,870.00	12,886.32	7,730.00	59.21	97.82	-87.05	-1,861.35	4,588.85	2,682.87	2,563.10	119.77	22.400	
12,000.00	7,870.00	12,986.32	7,730.00	60.57	98.05	-87.05	-1,961.34	4,588.52	2,682.87	2,560.58	122.28	21.940	
12,100.00	7,870.00	13,086.32	7,730.00	61.94	98.31	-87.05	-2,061.34	4,588.18	2,682.87	2,558.02	124.85	21.489	
12,200.00	7,870.00	13,186.32	7,730.00	63.33	98.60	-87.05	-2,161.34	4,587.84	2,682.87	2,555.42	127.45	21.050	
12,300.00	7,870.00	13,286.32	7,730.00	64.74	98.93	-87.05	-2,261.34	4,587.50	2,682.87	2,552.77	130.11	20.621	
12,400.00	7,870.00	13,386.32	7,730.00	66.16	99.29	-87.05	-2,361.34	4,587.16	2,682.87	2,550.08	132.80	20.203	
12,500.00	7,870.00	13,486.32	7,730.00	67.59	99.68	-87.05	-2,461.34	4,586.82	2,682.87	2,547.35	135.53	19.796	
12,600.00	7,870.00	13,586.32	7,730.00	69.04	100.11	-87.05	-2,561.34	4,586.49	2,682.88	2,544.58	138.29	19.400	
12,700.00	7,870.00	13,686.32	7,730.00	70.51	100.58	-87.05	-2,661.34	4,586.15	2,682.88	2,541.78	141.09	19.015	
12,800.00	7,870.00	13,786.32	7,730.00	71.98	101.08	-87.05	-2,761.34	4,585.81	2,682.88	2,538.95	143.93	18.641	
12,900.00	7,870.00	13,886.32	7,730.00	73.47	101.63	-87.05	-2,861.34	4,585.47	2,682.88	2,536.09	146.79	18.277	
13,000.00	7,870.00	13,986.32	7,730.00	74.96	102.21	-87.05	-2,961.34	4,585.13	2,682.88	2,533.20	149.68	17.924	
13,100.00	7,870.00	14,086.32	7,730.00	76.47	102.84	-87.05	-3,061.34	4,584.79	2,682.88	2,530.28	152.60	17.582	
13,200.00	7,870.00	14,186.32	7,730.00	77.99	103.51	-87.05	-3,161.34	4,584.46	2,682.88	2,527.34	155.54	17.249	
13,300.00	7,870.00	14,286.32	7,730.00	79.51	104.22	-87.05	-3,261.34	4,584.12	2,682.88	2,524.38	158.51	16.926	
13,400.00	7,870.00	14,386.32	7,730.00	81.05	104.96	-87.05	-3,361.34	4,583.78	2,682.88	2,521.39	161.49	16.613	
13,500.00	7,870.00	14,486.32	7,730.00	82.59	105.75	-87.05	-3,461.34	4,583.44	2,682.89	2,518.38	164.51	16.309	
13,600.00	7,870.00	14,586.32	7,730.00	84.14	106.58	-87.05	-3,561.34	4,583.10	2,682.89	2,515.35	167.54	16.014	
13,700.00	7,870.00	14,686.32	7,730.00	85.70	107.45	-87.05	-3,661.34	4,582.76	2,682.89	2,512.30	170.59	15.727	
13,800.00	7,870.00	14,786.32	7,730.00	87.26	108.36	-87.05	-3,761.33	4,582.42	2,682.89	2,509.23	173.65	15.450	
13,900.00	7,870.00	14,886.32	7,730.00	88.83	109.30	-87.05	-3,861.33	4,582.09	2,682.89	2,506.15	176.74	15.180	
14,000.00	7,870.00	14,986.32	7,730.00	90.41	110.28	-87.05	-3,961.33	4,581.75	2,682.89	2,503.05	179.84	14.918	
14,100.00	7,870.00	15,086.32	7,730.00	92.00	111.29	-87.05	-4,061.33	4,581.41	2,682.89	2,499.93	182.96	14.664	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	15,186.32	7,730.00	93.59	112.34	-87.05	-4,161.33	4,581.07	2,682.89	2,496.80	186.09	14.417	
14,300.00	7,870.00	15,286.32	7,730.00	95.18	113.42	-87.05	-4,261.33	4,580.73	2,682.89	2,493.66	189.24	14.178	
14,400.00	7,870.00	15,386.32	7,730.00	96.79	114.53	-87.05	-4,361.33	4,580.39	2,682.90	2,490.50	192.39	13.945	
14,500.00	7,870.00	15,486.32	7,730.00	98.39	115.67	-87.05	-4,461.33	4,580.06	2,682.90	2,487.33	195.57	13.719	
14,600.00	7,870.00	15,586.32	7,730.00	100.00	116.83	-87.05	-4,561.33	4,579.72	2,682.90	2,484.15	198.75	13.499	
14,700.00	7,870.00	15,686.32	7,730.00	101.62	118.02	-87.05	-4,661.33	4,579.38	2,682.90	2,480.95	201.95	13.285	
14,800.00	7,870.00	15,786.32	7,730.00	103.24	119.24	-87.05	-4,761.33	4,579.04	2,682.90	2,477.75	205.15	13.078	
14,900.00	7,870.00	15,886.32	7,730.00	104.87	120.48	-87.05	-4,861.33	4,578.70	2,682.90	2,474.53	208.37	12.876	
15,000.00	7,870.00	15,986.32	7,730.00	106.50	121.74	-87.05	-4,961.33	4,578.36	2,682.90	2,471.31	211.60	12.679	
15,100.00	7,870.00	16,086.32	7,730.00	108.13	123.02	-87.05	-5,061.33	4,578.03	2,682.90	2,468.07	214.83	12.488	
15,200.00	7,870.00	16,186.32	7,730.00	109.77	124.32	-87.05	-5,161.33	4,577.69	2,682.90	2,464.83	218.08	12.303	
15,300.00	7,870.00	16,286.32	7,730.00	111.41	125.64	-87.05	-5,261.33	4,577.35	2,682.91	2,461.57	221.33	12.122	
15,400.00	7,870.00	16,386.32	7,730.00	113.05	126.98	-87.05	-5,361.33	4,577.01	2,682.91	2,458.31	224.59	11.946	
15,500.00	7,870.00	16,486.32	7,730.00	114.70	128.33	-87.05	-5,461.32	4,576.67	2,682.91	2,455.04	227.86	11.774	
15,600.00	7,870.00	16,586.32	7,730.00	116.35	129.70	-87.05	-5,561.32	4,576.33	2,682.91	2,451.77	231.14	11.607	
15,700.00	7,870.00	16,686.32	7,730.00	118.00	131.08	-87.05	-5,661.32	4,575.99	2,682.91	2,448.48	234.43	11.444	
15,800.00	7,870.00	16,786.32	7,730.00	119.66	132.48	-87.05	-5,761.32	4,575.66	2,682.91	2,445.19	237.72	11.286	
15,900.00	7,870.00	16,886.32	7,730.00	121.32	133.89	-87.05	-5,861.32	4,575.32	2,682.91	2,441.89	241.02	11.131	
16,000.00	7,870.00	16,986.32	7,730.00	122.98	135.32	-87.05	-5,961.32	4,574.98	2,682.91	2,438.59	244.33	10.981	
16,100.00	7,870.00	17,086.32	7,730.00	124.65	136.75	-87.05	-6,061.32	4,574.64	2,682.91	2,435.28	247.64	10.834	
16,200.00	7,870.00	17,186.32	7,730.00	126.32	138.20	-87.05	-6,161.32	4,574.30	2,682.92	2,431.96	250.96	10.691	
16,300.00	7,870.00	17,286.32	7,730.00	127.99	139.65	-87.05	-6,261.32	4,573.96	2,682.92	2,428.64	254.28	10.551	
16,400.00	7,870.00	17,386.32	7,730.00	129.66	141.12	-87.05	-6,361.32	4,573.63	2,682.92	2,425.31	257.61	10.415	
16,500.00	7,870.00	17,486.32	7,730.00	131.33	142.60	-87.05	-6,461.32	4,573.29	2,682.92	2,421.98	260.94	10.282	
16,600.00	7,870.00	17,586.32	7,730.00	133.01	144.08	-87.05	-6,561.32	4,572.95	2,682.92	2,418.64	264.28	10.152	
16,700.00	7,870.00	17,686.32	7,730.00	134.69	145.57	-87.05	-6,661.32	4,572.61	2,682.92	2,415.29	267.63	10.025	
16,800.00	7,870.00	17,786.32	7,730.00	136.37	147.08	-87.05	-6,761.32	4,572.27	2,682.92	2,411.95	270.98	9.901	
16,900.00	7,870.00	17,886.32	7,730.00	138.06	148.58	-87.05	-6,861.32	4,571.93	2,682.92	2,408.59	274.33	9.780	
17,000.00	7,870.00	17,986.32	7,730.00	139.74	150.10	-87.05	-6,961.32	4,571.60	2,682.92	2,405.24	277.69	9.662	
17,100.00	7,870.00	18,086.32	7,730.00	141.43	151.63	-87.05	-7,061.32	4,571.26	2,682.93	2,401.88	281.05	9.546	
17,200.00	7,870.00	18,186.32	7,730.00	143.12	153.16	-87.05	-7,161.32	4,570.92	2,682.93	2,398.51	284.42	9.433	
17,300.00	7,870.00	18,286.32	7,730.00	144.81	154.69	-87.05	-7,261.31	4,570.58	2,682.93	2,395.14	287.79	9.323	
17,400.00	7,870.00	18,386.32	7,730.00	146.50	156.24	-87.05	-7,361.31	4,570.24	2,682.93	2,391.77	291.16	9.215	
17,500.00	7,870.00	18,486.32	7,730.00	148.19	157.79	-87.05	-7,461.31	4,569.90	2,682.93	2,388.39	294.54	9.109	
17,600.00	7,870.00	18,586.32	7,730.00	149.89	159.34	-87.05	-7,561.31	4,569.57	2,682.93	2,385.01	297.92	9.006	
17,700.00	7,870.00	18,686.32	7,730.00	151.59	160.90	-87.05	-7,661.31	4,569.23	2,682.93	2,381.63	301.30	8.904	
17,800.00	7,870.00	18,786.32	7,730.00	153.29	162.47	-87.05	-7,761.31	4,568.89	2,682.93	2,378.24	304.69	8.805	
17,900.00	7,870.00	18,886.32	7,730.00	154.99	164.04	-87.05	-7,861.31	4,568.55	2,682.93	2,374.85	308.08	8.708	
18,000.00	7,870.00	18,986.32	7,730.00	156.69	165.61	-87.05	-7,961.31	4,568.21	2,682.94	2,371.46	311.48	8.614	
18,100.00	7,870.00	19,086.32	7,730.00	158.39	167.19	-87.05	-8,061.31	4,567.87	2,682.94	2,368.06	314.87	8.521	
18,200.00	7,870.00	19,186.32	7,730.00	160.09	168.78	-87.05	-8,161.31	4,567.53	2,682.94	2,364.66	318.27	8.430	
18,300.00	7,870.00	19,286.32	7,730.00	161.80	170.36	-87.05	-8,261.31	4,567.20	2,682.94	2,361.26	321.68	8.340	
18,400.00	7,870.00	19,386.32	7,730.00	163.51	171.96	-87.05	-8,361.31	4,566.86	2,682.94	2,357.86	325.08	8.253	
18,401.36	7,870.00	19,387.68	7,730.00	163.53	171.98	-87.05	-8,362.67	4,566.85	2,682.94	2,357.81	325.13	8.252	
18,455.45	7,870.00	19,430.54	7,730.00	164.45	172.66	-87.05	-8,405.52	4,566.71	2,682.96	2,355.88	327.08	8.203	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.46	-0.73	89.88	89.88				
100.00	100.00	102.00	98.00	0.13	0.14	90.46	-0.73	89.88	89.88	89.61	0.28	325.638	
200.00	200.00	202.00	198.00	0.49	0.50	90.46	-0.73	89.88	89.88	88.89	0.99	90.520	
300.00	300.00	302.00	298.00	0.85	0.86	90.46	-0.73	89.88	89.88	88.17	1.71	52.566	
400.00	400.00	398.00	398.00	1.21	1.20	90.46	-0.73	89.88	89.88	87.47	2.41	37.257	CC, ES
500.00	500.00	495.23	495.21	1.57	1.55	90.06	-0.10	91.33	91.38	88.26	3.12	29.326	
600.00	600.00	592.18	592.04	1.93	1.89	88.91	1.82	95.80	96.00	92.19	3.82	25.161	
700.00	700.00	688.70	688.21	2.29	2.24	87.22	5.01	103.23	103.82	99.30	4.51	23.005	
800.00	800.00	784.56	783.41	2.64	2.61	85.24	9.46	113.56	114.88	109.67	5.21	22.068	
900.00	900.00	879.57	877.33	3.00	2.98	83.20	15.10	126.67	129.23	123.34	5.89	21.933	
1,000.00	1,000.00	973.52	969.69	3.36	3.38	81.27	21.88	142.44	146.87	140.30	6.57	22.355	
1,100.00	1,100.00	1,066.24	1,060.25	3.72	3.80	79.51	29.75	160.73	167.76	160.52	7.24	23.177	
1,200.00	1,200.00	1,157.55	1,148.76	4.08	4.25	77.98	38.62	181.36	191.85	183.96	7.89	24.312	
1,300.00	1,300.00	1,247.32	1,235.02	4.44	4.72	76.66	48.43	204.15	219.07	210.53	8.54	25.661	
1,400.00	1,399.98	1,335.87	1,319.31	4.79	5.22	32.47	59.14	229.06	247.92	238.75	9.17	27.049	
1,500.00	1,499.84	1,423.60	1,401.96	5.15	5.75	31.70	70.77	256.09	276.90	267.12	9.78	28.307	
1,600.00	1,599.45	1,510.53	1,482.93	5.51	6.32	31.28	83.27	285.15	305.93	295.54	10.39	29.432	
1,700.00	1,698.70	1,596.68	1,562.18	5.87	6.93	31.11	96.61	316.16	334.98	323.97	11.01	30.437	
1,800.00	1,797.47	1,682.04	1,639.68	6.24	7.58	31.12	110.75	349.03	364.00	352.39	11.62	31.327	
1,900.00	1,895.62	1,766.64	1,715.39	6.63	8.27	31.27	125.66	383.69	393.00	380.76	12.24	32.112	
2,000.00	1,993.06	1,850.48	1,789.30	7.04	9.00	31.53	141.30	420.05	421.96	409.09	12.87	32.796	
2,100.00	2,089.64	1,933.59	1,861.38	7.48	9.77	31.87	157.64	458.04	450.87	437.36	13.51	33.380	
2,200.00	2,185.27	2,015.96	1,931.62	7.94	10.58	32.27	174.64	497.57	479.74	465.57	14.17	33.863	
2,300.00	2,279.82	2,097.62	2,000.00	8.45	11.42	32.72	192.28	538.57	508.57	493.72	14.85	34.240	
2,400.00	2,373.17	2,178.58	2,066.51	8.99	12.32	33.21	210.52	580.98	537.36	521.79	15.57	34.504	
2,500.00	2,465.21	2,258.86	2,131.14	9.58	13.25	33.73	229.34	624.71	566.12	549.79	16.33	34.658	
2,574.08	2,532.50	2,317.91	2,177.82	10.04	13.96	34.12	243.63	657.93	587.41	570.48	16.93	34.705	
2,600.00	2,555.89	2,338.46	2,193.89	10.21	14.22	34.35	248.69	669.70	594.94	577.80	17.14	34.712	
2,700.00	2,646.16	2,426.32	2,253.77	10.88	15.33	35.12	268.22	715.11	625.70	607.67	18.02	34.714	
2,800.00	2,736.44	2,510.37	2,325.52	11.57	16.43	35.93	292.37	771.26	657.97	638.86	19.11	34.428	
2,900.00	2,826.71	2,604.62	2,397.27	12.27	17.68	36.67	316.52	827.40	690.35	670.06	20.29	34.019	
3,000.00	2,916.98	2,701.13	2,469.02	13.00	18.97	37.35	340.67	883.54	722.83	701.31	21.52	33.590	
3,100.00	3,007.25	2,806.88	2,540.77	13.73	20.39	37.97	364.83	939.68	755.38	732.55	22.83	33.084	
3,200.00	3,097.52	2,887.37	2,612.51	14.48	21.48	38.53	388.98	995.82	788.01	764.01	24.00	32.831	
3,300.00	3,187.80	2,981.62	2,684.26	15.23	22.76	39.05	413.13	1,051.96	820.71	795.43	25.28	32.462	
3,400.00	3,278.07	3,075.86	2,756.01	15.99	24.04	39.54	437.28	1,108.11	853.46	826.88	26.58	32.109	
3,500.00	3,368.34	3,170.11	2,827.76	16.76	25.33	39.98	461.43	1,164.25	886.26	858.37	27.89	31.772	
3,600.00	3,458.61	3,264.36	2,899.51	17.54	26.63	40.40	485.58	1,220.39	919.10	889.88	29.22	31.452	
3,700.00	3,548.89	3,358.61	2,971.26	18.32	27.92	40.78	509.73	1,276.53	951.99	921.43	30.56	31.148	
3,800.00	3,639.16	3,452.86	3,043.01	19.10	29.22	41.14	533.88	1,332.67	984.91	953.00	31.92	30.859	
3,900.00	3,729.43	3,547.11	3,114.75	19.89	30.52	41.48	558.03	1,388.81	1,017.87	984.59	33.28	30.586	
4,000.00	3,819.70	3,641.36	3,186.50	20.69	31.82	41.80	582.18	1,444.96	1,050.85	1,016.20	34.65	30.327	
4,100.00	3,909.98	3,735.61	3,258.25	21.48	33.12	42.09	606.33	1,501.10	1,083.86	1,047.83	36.03	30.081	
4,200.00	4,000.25	3,829.86	3,330.00	22.28	34.43	42.37	630.48	1,557.24	1,116.89	1,079.48	37.42	29.848	
4,300.00	4,090.52	3,924.11	3,401.75	23.08	35.74	42.63	654.63	1,613.38	1,149.95	1,111.14	38.81	29.627	
4,400.00	4,180.79	4,018.36	3,473.50	23.88	37.04	42.88	678.78	1,669.52	1,183.03	1,142.81	40.22	29.417	
4,500.00	4,271.06	4,112.61	3,545.25	24.69	38.35	43.12	702.93	1,725.67	1,216.13	1,174.50	41.62	29.218	
4,600.00	4,361.34	4,206.86	3,617.00	25.49	39.66	43.34	727.08	1,781.81	1,249.24	1,206.20	43.04	29.028	
4,700.00	4,451.61	4,301.11	3,688.74	26.30	40.97	43.55	751.23	1,837.95	1,282.37	1,237.92	44.45	28.848	
4,800.00	4,541.88	4,395.36	3,760.49	27.11	42.28	43.75	775.38	1,894.09	1,315.51	1,269.64	45.87	28.677	
4,900.00	4,632.15	4,489.61	3,832.24	27.92	43.60	43.94	799.53	1,950.23	1,348.67	1,301.37	47.30	28.513	
5,000.00	4,722.43	4,583.86	3,903.99	28.74	44.91	44.12	823.68	2,006.37	1,381.84	1,333.11	48.73	28.357	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,678.11	3,975.74	29.55	46.22	44.30	847.83	2,062.52	1,415.03	1,364.86	50.16	28.209	
5,200.00	4,902.97	4,772.36	4,047.49	30.37	47.54	44.46	871.98	2,118.66	1,448.22	1,396.62	51.60	28.067	
5,300.00	4,993.24	4,866.61	4,119.24	31.18	48.85	44.62	896.13	2,174.80	1,481.42	1,428.38	53.04	27.931	
5,400.00	5,083.51	4,960.86	4,190.98	32.00	50.17	44.77	920.28	2,230.94	1,514.64	1,460.16	54.48	27.801	
5,500.00	5,173.79	5,055.11	4,262.73	32.82	51.48	44.92	944.43	2,287.08	1,547.86	1,491.93	55.93	27.677	
5,600.00	5,264.06	5,149.36	4,334.48	33.63	52.80	45.05	968.58	2,343.22	1,581.09	1,523.72	57.37	27.558	
5,700.00	5,354.33	5,243.61	4,406.23	34.45	54.11	45.19	992.73	2,399.37	1,614.33	1,555.51	58.82	27.443	
5,800.00	5,444.60	5,337.86	4,477.98	35.27	55.43	45.31	1,016.88	2,455.51	1,647.58	1,587.30	60.28	27.334	
5,900.00	5,534.88	5,432.11	4,549.73	36.09	56.75	45.44	1,041.03	2,511.65	1,680.83	1,619.10	61.73	27.229	
6,000.00	5,625.15	5,526.36	4,621.48	36.91	58.07	45.55	1,065.18	2,567.79	1,714.09	1,650.90	63.19	27.128	
6,100.00	5,715.42	5,620.61	4,693.23	37.74	59.38	45.67	1,089.33	2,623.93	1,747.35	1,682.71	64.64	27.030	
6,200.00	5,805.69	5,714.86	4,764.97	38.56	60.70	45.78	1,113.48	2,680.08	1,780.63	1,714.52	66.10	26.937	
6,300.00	5,895.96	5,809.11	4,836.72	39.38	62.02	45.88	1,137.63	2,736.22	1,813.90	1,746.34	67.56	26.847	
6,400.00	5,986.24	5,903.36	4,908.47	40.20	63.34	45.98	1,161.78	2,792.36	1,847.19	1,778.16	69.03	26.760	
6,500.00	6,076.51	6,002.39	4,980.22	41.03	64.72	46.08	1,185.93	2,848.50	1,880.47	1,809.94	70.53	26.662	
6,600.00	6,166.78	6,108.15	5,051.97	41.85	66.20	46.17	1,210.08	2,904.64	1,913.76	1,841.68	72.09	26.548	
6,700.00	6,257.05	6,186.10	5,123.72	42.67	67.29	46.26	1,234.23	2,960.78	1,947.06	1,873.64	73.42	26.518	
6,800.00	6,347.33	6,280.35	5,195.47	43.50	68.61	46.35	1,258.38	3,016.93	1,980.36	1,905.47	74.89	26.443	
6,900.00	6,437.60	6,374.60	5,267.21	44.32	69.93	46.44	1,282.53	3,073.07	2,013.67	1,937.31	76.36	26.370	
7,000.00	6,527.87	6,468.85	5,338.96	45.15	71.25	46.52	1,306.68	3,129.21	2,046.97	1,969.14	77.83	26.300	
7,100.00	6,618.14	6,563.10	5,410.71	45.98	72.57	46.60	1,330.83	3,185.35	2,080.29	2,000.98	79.30	26.232	
7,200.00	6,708.41	6,657.35	5,482.46	46.80	73.89	46.68	1,354.98	3,241.49	2,113.60	2,032.83	80.77	26.167	
7,300.00	6,798.69	6,751.60	5,554.21	47.63	75.21	46.75	1,379.13	3,297.64	2,146.92	2,064.67	82.25	26.103	
7,400.00	6,888.96	6,845.85	5,625.96	48.45	76.53	46.82	1,403.28	3,353.78	2,180.24	2,096.52	83.72	26.041	
7,500.00	6,979.23	6,940.10	5,697.71	49.28	77.85	46.89	1,427.43	3,409.92	2,213.57	2,128.37	85.20	25.982	
7,600.00	7,069.50	7,034.35	5,769.46	50.11	79.17	46.96	1,451.58	3,466.06	2,246.90	2,160.22	86.67	25.924	
7,692.09	7,152.63	7,121.14	5,835.53	50.87	80.39	47.02	1,473.82	3,517.76	2,277.59	2,189.55	88.03	25.872	
7,700.00	7,159.79	7,128.60	5,841.21	50.93	80.49	46.09	1,475.73	3,522.20	2,280.22	2,192.08	88.15	25.868	
7,750.00	7,205.70	7,175.76	5,877.10	51.32	81.15	38.73	1,487.82	3,550.29	2,296.73	2,207.95	88.78	25.870	
7,800.00	7,252.52	7,222.67	5,912.82	51.66	81.81	28.53	1,499.84	3,578.24	2,312.91	2,223.66	89.25	25.915	
7,850.00	7,299.89	7,269.00	5,948.08	51.96	82.46	15.68	1,511.71	3,605.83	2,328.67	2,239.12	89.55	26.004	
7,900.00	7,347.44	7,314.38	5,982.63	52.20	83.10	1.56	1,523.34	3,632.87	2,343.94	2,254.26	89.68	26.136	
7,950.00	7,394.83	7,358.48	6,016.20	52.39	83.72	-11.69	1,534.64	3,659.13	2,358.69	2,269.05	89.65	26.311	
8,000.00	7,441.68	7,400.94	6,048.53	52.53	84.31	-22.61	1,545.52	3,684.43	2,372.90	2,283.45	89.46	26.526	
8,050.00	7,487.65	7,441.47	6,079.38	52.62	84.88	-30.95	1,555.90	3,708.57	2,386.56	2,297.45	89.11	26.782	
8,100.00	7,532.37	7,479.73	6,108.51	52.67	85.41	-37.13	1,565.71	3,731.36	2,399.68	2,311.06	88.62	27.077	
8,150.00	7,575.52	7,515.45	6,135.70	52.67	85.92	-41.68	1,574.86	3,752.64	2,412.30	2,324.29	88.01	27.410	
8,200.00	7,616.76	7,548.35	6,160.74	52.63	86.38	-45.05	1,583.29	3,772.23	2,424.43	2,337.15	87.27	27.780	
8,250.00	7,655.77	7,578.17	6,183.45	52.55	86.79	-47.54	1,590.93	3,790.00	2,436.11	2,349.68	86.44	28.184	
8,300.00	7,692.27	7,604.71	6,203.64	52.44	87.17	-49.37	1,597.73	3,805.80	2,447.39	2,361.87	85.52	28.619	
8,350.00	7,725.97	7,627.74	6,221.18	52.29	87.49	-50.68	1,603.63	3,819.52	2,458.28	2,373.75	84.53	29.082	
8,400.00	7,756.62	7,647.10	6,235.91	52.12	87.76	-51.59	1,608.59	3,831.05	2,468.81	2,385.32	83.49	29.569	
8,450.00	7,783.98	7,662.63	6,247.74	51.92	87.98	-52.14	1,612.57	3,840.31	2,479.00	2,396.57	82.44	30.072	
8,500.00	7,807.85	7,674.23	6,256.57	51.70	88.14	-52.40	1,615.54	3,847.22	2,488.84	2,407.47	81.37	30.586	
8,550.00	7,828.05	7,681.80	6,262.34	51.45	88.25	-52.40	1,617.48	3,851.73	2,498.32	2,418.00	80.32	31.104	
8,600.00	7,844.41	7,685.29	6,264.99	51.20	88.30	-52.17	1,618.38	3,853.80	2,507.41	2,428.10	79.31	31.616	
8,650.00	7,856.82	7,684.66	6,264.51	50.93	88.29	-51.74	1,618.22	3,853.43	2,516.06	2,437.71	78.34	32.116	
8,700.00	7,865.18	7,679.93	6,260.91	50.65	88.22	-51.12	1,617.00	3,850.61	2,524.20	2,446.76	77.44	32.594	
8,750.00	7,869.43	7,671.12	6,254.20	50.36	88.10	-50.34	1,614.75	3,845.37	2,531.76	2,455.14	76.62	33.043	
8,776.25	7,870.00	7,664.89	6,249.46	50.21	88.01	-49.87	1,613.15	3,841.65	2,535.46	2,459.24	76.22	33.265	
8,800.00	7,870.00	7,658.76	6,244.79	50.08	87.92	-49.74	1,611.58	3,838.00	2,538.83	2,462.95	75.88	33.458	
8,900.00	7,870.00	7,632.93	6,225.13	49.53	87.56	-49.17	1,604.96	3,822.62	2,555.20	2,480.50	74.70	34.205	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,607.10	6,205.47	49.01	87.20	-48.60	1,598.34	3,807.23	2,575.10	2,501.16	73.93	34.830	
9,100.00	7,870.00	7,581.28	6,185.81	48.52	86.84	-48.04	1,591.73	3,791.85	2,598.43	2,524.88	73.56	35.325	
9,200.00	7,870.00	7,555.45	6,166.15	48.06	86.48	-47.47	1,585.11	3,776.47	2,625.12	2,551.56	73.56	35.688	
9,300.00	7,870.00	7,529.63	6,146.49	47.63	86.11	-46.90	1,578.49	3,761.08	2,655.06	2,581.16	73.90	35.926	
9,400.00	7,870.00	7,503.80	6,126.83	47.22	85.75	-46.34	1,571.87	3,745.70	2,688.14	2,613.58	74.56	36.055	
9,500.00	7,870.00	7,477.98	6,107.17	46.83	85.39	-45.78	1,565.26	3,730.31	2,724.24	2,648.77	75.48	36.094	
9,600.00	7,870.00	7,452.15	6,087.51	46.48	85.03	-45.21	1,558.64	3,714.93	2,763.25	2,686.64	76.62	36.066	
9,700.00	7,870.00	7,426.32	6,067.85	46.14	84.67	-44.65	1,552.02	3,699.55	2,805.05	2,727.11	77.94	35.991	
9,800.00	7,870.00	7,400.50	6,048.19	45.83	84.30	-44.09	1,545.40	3,684.16	2,849.51	2,770.11	79.40	35.888	
9,900.00	7,870.00	7,374.67	6,028.53	45.54	83.94	-43.53	1,538.79	3,668.78	2,896.51	2,815.55	80.96	35.776	
10,000.00	7,870.00	7,348.85	6,008.87	45.27	83.58	-42.98	1,532.17	3,653.40	2,945.93	2,863.34	82.59	35.668	
10,100.00	7,870.00	7,323.02	5,989.21	45.03	83.22	-42.42	1,525.55	3,638.01	2,997.65	2,913.38	84.27	35.573	
10,200.00	7,870.00	11,275.81	7,630.00	44.82	104.96	-85.46	-162.39	4,914.35	3,008.47	2,918.29	90.18	33.361	
10,300.00	7,870.00	11,375.81	7,630.00	44.66	104.84	-85.46	-262.39	4,914.01	3,008.47	2,917.25	91.22	32.981	
10,400.00	7,870.00	11,475.81	7,630.00	44.56	104.74	-85.46	-362.39	4,913.68	3,008.47	2,916.09	92.38	32.566	
10,500.00	7,870.00	11,575.81	7,630.00	44.58	104.65	-85.46	-462.39	4,913.34	3,008.48	2,914.81	93.66	32.120	
10,600.00	7,870.00	11,675.81	7,630.00	44.82	104.57	-85.46	-562.39	4,913.00	3,008.48	2,913.42	95.06	31.649	
10,700.00	7,870.00	11,775.81	7,630.00	45.36	104.51	-85.46	-662.39	4,912.66	3,008.48	2,911.92	96.56	31.156	
10,800.00	7,870.00	11,875.81	7,630.00	46.15	104.46	-85.46	-762.39	4,912.33	3,008.48	2,910.32	98.17	30.646	
10,900.00	7,870.00	11,975.81	7,630.00	47.09	104.43	-85.46	-862.39	4,911.99	3,008.49	2,908.61	99.87	30.123	
11,000.00	7,870.00	12,075.81	7,630.00	48.13	104.42	-85.46	-962.39	4,911.65	3,008.49	2,906.82	101.67	29.590	
11,100.00	7,870.00	12,175.81	7,630.00	49.22	104.42	-85.46	-1,062.39	4,911.32	3,008.49	2,904.93	103.56	29.050	
11,200.00	7,870.00	12,275.81	7,630.00	50.37	104.44	-85.46	-1,162.39	4,910.98	3,008.50	2,902.96	105.53	28.508	
11,300.00	7,870.00	12,375.81	7,630.00	51.55	104.47	-85.46	-1,262.39	4,910.64	3,008.50	2,900.92	107.58	27.965	
11,400.00	7,870.00	12,475.81	7,630.00	52.76	104.53	-85.46	-1,362.38	4,910.31	3,008.50	2,898.79	109.71	27.423	
11,500.00	7,870.00	12,575.81	7,630.00	54.00	104.61	-85.46	-1,462.38	4,909.97	3,008.50	2,896.60	111.90	26.886	
11,600.00	7,870.00	12,675.81	7,630.00	55.27	104.70	-85.46	-1,562.38	4,909.63	3,008.51	2,894.34	114.16	26.353	
11,700.00	7,870.00	12,775.81	7,630.00	56.56	104.82	-85.46	-1,662.38	4,909.30	3,008.51	2,892.02	116.48	25.828	
11,800.00	7,870.00	12,875.81	7,630.00	57.88	104.95	-85.46	-1,762.38	4,908.96	3,008.51	2,889.64	118.87	25.310	
11,900.00	7,870.00	12,975.81	7,630.00	59.21	105.11	-85.46	-1,862.38	4,908.62	3,008.51	2,887.21	121.30	24.801	
12,000.00	7,870.00	13,075.81	7,630.00	60.57	105.29	-85.46	-1,962.38	4,908.28	3,008.52	2,884.72	123.79	24.303	
12,100.00	7,870.00	13,175.81	7,630.00	61.94	105.50	-85.46	-2,062.38	4,907.95	3,008.52	2,882.19	126.33	23.815	
12,200.00	7,870.00	13,275.81	7,630.00	63.33	105.73	-85.46	-2,162.38	4,907.61	3,008.52	2,879.61	128.92	23.337	
12,300.00	7,870.00	13,375.81	7,630.00	64.74	105.99	-85.46	-2,262.38	4,907.27	3,008.52	2,876.98	131.54	22.871	
12,400.00	7,870.00	13,475.81	7,630.00	66.16	106.28	-85.46	-2,362.38	4,906.94	3,008.53	2,874.32	134.21	22.416	
12,500.00	7,870.00	13,575.81	7,630.00	67.59	106.60	-85.46	-2,462.38	4,906.60	3,008.53	2,871.61	136.92	21.973	
12,600.00	7,870.00	13,675.81	7,630.00	69.04	106.94	-85.46	-2,562.38	4,906.26	3,008.53	2,868.87	139.66	21.542	
12,700.00	7,870.00	13,775.81	7,630.00	70.51	107.32	-85.46	-2,662.38	4,905.93	3,008.53	2,866.10	142.44	21.122	
12,800.00	7,870.00	13,875.81	7,630.00	71.98	107.73	-85.46	-2,762.38	4,905.59	3,008.54	2,863.29	145.25	20.713	
12,900.00	7,870.00	13,975.81	7,630.00	73.47	108.17	-85.46	-2,862.38	4,905.25	3,008.54	2,860.45	148.09	20.316	
13,000.00	7,870.00	14,075.81	7,630.00	74.96	108.65	-85.46	-2,962.38	4,904.92	3,008.54	2,857.59	150.96	19.930	
13,100.00	7,870.00	14,175.81	7,630.00	76.47	109.16	-85.46	-3,062.38	4,904.58	3,008.55	2,854.69	153.85	19.555	
13,200.00	7,870.00	14,275.81	7,630.00	77.99	109.70	-85.46	-3,162.37	4,904.24	3,008.55	2,851.77	156.77	19.190	
13,300.00	7,870.00	14,375.81	7,630.00	79.51	110.28	-85.46	-3,262.37	4,903.91	3,008.55	2,848.83	159.72	18.836	
13,400.00	7,870.00	14,475.81	7,630.00	81.05	110.90	-85.46	-3,362.37	4,903.57	3,008.55	2,845.86	162.69	18.493	
13,500.00	7,870.00	14,575.81	7,630.00	82.59	111.56	-85.46	-3,462.37	4,903.23	3,008.56	2,842.88	165.68	18.159	
13,600.00	7,870.00	14,675.81	7,630.00	84.14	112.25	-85.46	-3,562.37	4,902.89	3,008.56	2,839.87	168.69	17.835	
13,700.00	7,870.00	14,775.81	7,630.00	85.70	112.98	-85.46	-3,662.37	4,902.56	3,008.56	2,836.84	171.72	17.520	
13,800.00	7,870.00	14,875.81	7,630.00	87.26	113.75	-85.46	-3,762.37	4,902.22	3,008.56	2,833.79	174.77	17.215	
13,900.00	7,870.00	14,975.81	7,630.00	88.83	114.55	-85.46	-3,862.37	4,901.88	3,008.57	2,830.73	177.83	16.918	
14,000.00	7,870.00	15,075.81	7,630.00	90.41	115.39	-85.46	-3,962.37	4,901.55	3,008.57	2,827.65	180.92	16.629	
14,100.00	7,870.00	15,175.81	7,630.00	92.00	116.27	-85.46	-4,062.37	4,901.21	3,008.57	2,824.55	184.02	16.349	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	15,275.81	7,630.00	93.59	117.18	-85.46	-4,162.37	4,900.87	3,008.57	2,821.44	187.13	16.077	
14,300.00	7,870.00	15,375.81	7,630.00	95.18	118.12	-85.46	-4,262.37	4,900.54	3,008.58	2,818.32	190.26	15.813	
14,400.00	7,870.00	15,475.81	7,630.00	96.79	119.10	-85.46	-4,362.37	4,900.20	3,008.58	2,815.18	193.40	15.556	
14,500.00	7,870.00	15,575.81	7,630.00	98.39	120.11	-85.46	-4,462.37	4,899.86	3,008.58	2,812.03	196.56	15.307	
14,600.00	7,870.00	15,675.81	7,630.00	100.00	121.14	-85.46	-4,562.37	4,899.53	3,008.58	2,808.86	199.72	15.064	
14,700.00	7,870.00	15,775.81	7,630.00	101.62	122.21	-85.46	-4,662.37	4,899.19	3,008.59	2,805.69	202.90	14.828	
14,800.00	7,870.00	15,875.81	7,630.00	103.24	123.31	-85.46	-4,762.37	4,898.85	3,008.59	2,802.50	206.09	14.598	
14,900.00	7,870.00	15,975.81	7,630.00	104.87	124.44	-85.46	-4,862.37	4,898.51	3,008.59	2,799.30	209.29	14.375	
15,000.00	7,870.00	16,075.81	7,630.00	106.50	125.59	-85.46	-4,962.36	4,898.18	3,008.59	2,796.09	212.50	14.158	
15,100.00	7,870.00	16,175.81	7,630.00	108.13	126.76	-85.46	-5,062.36	4,897.84	3,008.60	2,792.87	215.72	13.947	
15,200.00	7,870.00	16,275.81	7,630.00	109.77	127.96	-85.46	-5,162.36	4,897.50	3,008.60	2,789.65	218.95	13.741	
15,300.00	7,870.00	16,375.81	7,630.00	111.41	129.18	-85.46	-5,262.36	4,897.17	3,008.60	2,786.41	222.19	13.540	
15,400.00	7,870.00	16,475.81	7,630.00	113.05	130.43	-85.46	-5,362.36	4,896.83	3,008.61	2,783.16	225.44	13.345	
15,500.00	7,870.00	16,575.81	7,630.00	114.70	131.69	-85.46	-5,462.36	4,896.49	3,008.61	2,779.91	228.70	13.155	
15,600.00	7,870.00	16,675.81	7,630.00	116.35	132.97	-85.46	-5,562.36	4,896.16	3,008.61	2,776.65	231.96	12.970	
15,700.00	7,870.00	16,775.81	7,630.00	118.00	134.27	-85.46	-5,662.36	4,895.82	3,008.61	2,773.38	235.23	12.790	
15,800.00	7,870.00	16,875.81	7,630.00	119.66	135.59	-85.46	-5,762.36	4,895.48	3,008.62	2,770.11	238.51	12.614	
15,900.00	7,870.00	16,975.81	7,630.00	121.32	136.93	-85.46	-5,862.36	4,895.15	3,008.62	2,766.82	241.80	12.443	
16,000.00	7,870.00	17,075.81	7,630.00	122.98	138.28	-85.46	-5,962.36	4,894.81	3,008.62	2,763.53	245.09	12.276	
16,100.00	7,870.00	17,175.81	7,630.00	124.65	139.64	-85.46	-6,062.36	4,894.47	3,008.62	2,760.24	248.39	12.113	
16,200.00	7,870.00	17,275.81	7,630.00	126.32	141.02	-85.46	-6,162.36	4,894.14	3,008.63	2,756.94	251.69	11.954	
16,300.00	7,870.00	17,375.81	7,630.00	127.99	142.41	-85.46	-6,262.36	4,893.80	3,008.63	2,753.63	255.00	11.798	
16,400.00	7,870.00	17,475.81	7,630.00	129.66	143.82	-85.46	-6,362.36	4,893.46	3,008.63	2,750.31	258.32	11.647	
16,500.00	7,870.00	17,575.81	7,630.00	131.33	145.24	-85.46	-6,462.36	4,893.12	3,008.63	2,746.99	261.64	11.499	
16,600.00	7,870.00	17,675.81	7,630.00	133.01	146.67	-85.46	-6,562.36	4,892.79	3,008.64	2,743.67	264.97	11.355	
16,700.00	7,870.00	17,775.81	7,630.00	134.69	148.11	-85.46	-6,662.35	4,892.45	3,008.64	2,740.34	268.30	11.214	
16,800.00	7,870.00	17,875.81	7,630.00	136.37	149.55	-85.46	-6,762.35	4,892.11	3,008.64	2,737.01	271.64	11.076	
16,900.00	7,870.00	17,975.81	7,630.00	138.06	151.01	-85.46	-6,862.35	4,891.78	3,008.64	2,733.67	274.98	10.941	
17,000.00	7,870.00	18,075.81	7,630.00	139.74	152.48	-85.46	-6,962.35	4,891.44	3,008.65	2,730.32	278.32	10.810	
17,100.00	7,870.00	18,175.81	7,630.00	141.43	153.96	-85.46	-7,062.35	4,891.10	3,008.65	2,726.98	281.67	10.681	
17,200.00	7,870.00	18,275.81	7,630.00	143.12	155.45	-85.46	-7,162.35	4,890.77	3,008.65	2,723.62	285.03	10.556	
17,300.00	7,870.00	18,375.81	7,630.00	144.81	156.94	-85.46	-7,262.35	4,890.43	3,008.66	2,720.27	288.39	10.433	
17,400.00	7,870.00	18,475.81	7,630.00	146.50	158.45	-85.46	-7,362.35	4,890.09	3,008.66	2,716.91	291.75	10.312	
17,500.00	7,870.00	18,575.81	7,630.00	148.19	159.96	-85.46	-7,462.35	4,889.76	3,008.66	2,713.54	295.12	10.195	
17,600.00	7,870.00	18,675.81	7,630.00	149.89	161.47	-85.46	-7,562.35	4,889.42	3,008.66	2,710.18	298.49	10.080	
17,700.00	7,870.00	18,775.81	7,630.00	151.59	163.00	-85.46	-7,662.35	4,889.08	3,008.67	2,706.80	301.86	9.967	
17,800.00	7,870.00	18,875.81	7,630.00	153.29	164.53	-85.46	-7,762.35	4,888.74	3,008.67	2,703.43	305.24	9.857	
17,900.00	7,870.00	18,975.81	7,630.00	154.99	166.06	-85.46	-7,862.35	4,888.41	3,008.67	2,700.05	308.62	9.749	
18,000.00	7,870.00	19,075.81	7,630.00	156.69	167.60	-85.46	-7,962.35	4,888.07	3,008.67	2,696.67	312.00	9.643	
18,100.00	7,870.00	19,175.81	7,630.00	158.39	169.15	-85.46	-8,062.35	4,887.73	3,008.68	2,693.29	315.39	9.540	
18,200.00	7,870.00	19,275.81	7,630.00	160.09	170.71	-85.46	-8,162.35	4,887.40	3,008.68	2,689.90	318.78	9.438	
18,300.00	7,870.00	19,375.81	7,630.00	161.80	172.26	-85.46	-8,262.35	4,887.06	3,008.68	2,686.51	322.17	9.339	
18,400.00	7,870.00	19,475.81	7,630.00	163.51	173.83	-85.46	-8,362.35	4,886.72	3,008.68	2,683.12	325.57	9.241	
18,400.41	7,870.00	19,476.22	7,630.00	163.51	173.83	-85.46	-8,362.75	4,886.72	3,008.68	2,683.10	325.58	9.241	
18,455.45	7,870.00	19,518.56	7,630.00	164.45	174.50	-85.46	-8,405.10	4,886.58	3,008.71	2,681.16	327.55	9.185	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.42	-0.73	99.96	99.96				
100.00	100.00	102.00	98.00	0.13	0.14	90.42	-0.73	99.96	99.96	99.69	0.28	362.156	
200.00	200.00	202.00	198.00	0.49	0.50	90.42	-0.73	99.96	99.96	98.97	0.99	100.672	
300.00	300.00	298.00	298.00	0.85	0.84	90.42	-0.73	99.96	99.96	98.27	1.70	58.956	CC, ES
400.00	400.00	394.90	394.88	1.21	1.19	90.08	-0.14	101.42	101.47	99.07	2.40	42.298	
500.00	500.00	491.52	491.38	1.57	1.53	89.11	1.65	105.90	106.12	103.02	3.10	34.231	
600.00	600.00	587.71	587.22	1.93	1.89	87.65	4.65	113.36	113.96	110.16	3.80	29.992	
700.00	700.00	683.25	682.11	2.29	2.25	85.93	8.80	123.72	125.05	120.55	4.50	27.811	
800.00	800.00	777.94	775.72	2.64	2.63	84.13	14.08	136.88	139.39	134.20	5.19	26.875	
900.00	900.00	871.59	867.80	3.00	3.04	82.38	20.43	152.71	157.00	151.13	5.87	26.747	
1,000.00	1,000.00	964.01	958.08	3.36	3.46	80.77	27.79	171.07	177.85	171.30	6.54	27.175	
1,100.00	1,100.00	1,055.05	1,046.34	3.72	3.91	79.34	36.10	191.78	201.87	194.66	7.21	27.994	
1,200.00	1,200.00	1,144.56	1,132.38	4.08	4.39	78.09	45.28	214.67	229.00	221.14	7.86	29.145	
1,300.00	1,300.00	1,232.40	1,216.03	4.44	4.90	77.01	55.26	239.55	259.15	250.65	8.50	30.491	
1,400.00	1,399.98	1,318.94	1,297.59	4.79	5.43	32.95	66.02	266.38	290.85	281.73	9.12	31.881	
1,500.00	1,499.84	1,404.64	1,377.47	5.15	6.00	32.25	77.57	295.19	322.63	312.90	9.73	33.142	
1,600.00	1,599.45	1,489.50	1,455.62	5.51	6.61	31.85	89.89	325.89	354.42	344.07	10.34	34.261	
1,700.00	1,698.70	1,573.55	1,532.01	5.87	7.26	31.66	102.93	358.40	386.17	375.21	10.95	35.253	
1,800.00	1,797.47	1,656.78	1,606.63	6.24	7.95	31.64	116.66	392.63	417.86	406.29	11.57	36.130	
1,900.00	1,895.62	1,739.22	1,679.44	6.63	8.67	31.75	131.04	428.50	449.46	437.28	12.18	36.897	
2,000.00	1,993.06	1,820.88	1,750.44	7.04	9.43	31.95	146.06	465.94	480.99	468.18	12.81	37.559	
2,100.00	2,089.64	1,901.78	1,819.61	7.48	10.23	32.22	161.67	504.86	512.41	498.97	13.44	38.115	
2,200.00	2,185.27	1,981.92	1,886.95	7.94	11.07	32.56	177.85	545.19	543.75	529.65	14.10	38.554	
2,300.00	2,279.82	2,061.33	1,952.44	8.45	11.94	32.94	194.56	586.87	574.99	560.21	14.79	38.883	
2,400.00	2,373.17	2,140.02	2,016.09	8.99	12.86	33.36	211.78	629.81	606.15	590.64	15.50	39.098	
2,500.00	2,465.21	2,218.01	2,077.90	9.58	13.80	33.80	229.49	673.95	637.21	620.95	16.26	39.197	
2,574.08	2,532.50	2,275.35	2,122.50	10.04	14.53	34.15	242.90	707.39	660.17	643.32	16.84	39.192	
2,600.00	2,555.89	2,295.30	2,137.85	10.21	14.78	34.36	247.65	719.22	668.28	651.23	17.05	39.187	
2,700.00	2,646.16	2,381.84	2,203.72	10.88	15.92	35.21	268.54	771.32	700.82	682.77	18.05	38.822	
2,800.00	2,736.44	2,475.74	2,275.06	11.57	17.18	36.05	291.27	827.98	733.74	714.53	19.21	38.202	
2,900.00	2,826.71	2,569.63	2,346.40	12.27	18.45	36.82	313.99	884.64	766.78	746.38	20.39	37.597	
3,000.00	2,916.98	2,663.53	2,417.74	13.00	19.73	37.53	336.72	941.31	799.94	778.32	21.61	37.014	
3,100.00	3,007.25	2,757.43	2,489.08	13.73	21.01	38.18	359.45	997.97	833.19	810.34	22.85	36.456	
3,200.00	3,097.52	2,851.32	2,560.42	14.48	22.30	38.79	382.17	1,054.63	866.54	842.42	24.12	35.924	
3,300.00	3,187.80	2,945.22	2,631.76	15.23	23.59	39.34	404.90	1,111.29	899.97	874.56	25.41	35.420	
3,400.00	3,278.07	3,039.11	2,703.10	15.99	24.89	39.86	427.62	1,167.96	933.47	906.75	26.71	34.943	
3,500.00	3,368.34	3,133.01	2,774.44	16.76	26.19	40.34	450.35	1,224.62	967.03	938.99	28.04	34.492	
3,600.00	3,458.61	3,226.91	2,845.78	17.54	27.49	40.79	473.08	1,281.28	1,000.65	971.27	29.37	34.066	
3,700.00	3,548.89	3,320.80	2,917.12	18.32	28.79	41.21	495.80	1,337.94	1,034.32	1,003.59	30.72	33.665	
3,800.00	3,639.16	3,414.70	2,988.46	19.10	30.10	41.61	518.53	1,394.61	1,068.03	1,035.95	32.09	33.286	
3,900.00	3,729.43	3,508.60	3,059.80	19.89	31.41	41.98	541.26	1,451.27	1,101.79	1,068.33	33.46	32.929	
4,000.00	3,819.70	3,602.49	3,131.14	20.69	32.72	42.33	563.98	1,507.93	1,135.59	1,100.75	34.84	32.592	
4,100.00	3,909.98	3,703.61	3,202.48	21.48	34.13	42.66	586.71	1,564.59	1,169.42	1,133.13	36.29	32.227	
4,200.00	4,000.25	3,809.71	3,273.82	22.28	35.62	42.97	609.44	1,621.26	1,203.29	1,165.51	37.78	31.851	
4,300.00	4,090.52	3,884.18	3,345.16	23.08	36.66	43.26	632.16	1,677.92	1,237.18	1,198.14	39.04	31.688	
4,400.00	4,180.79	3,978.08	3,416.50	23.88	37.98	43.54	654.89	1,734.58	1,271.10	1,230.65	40.46	31.419	
4,500.00	4,271.06	4,071.98	3,487.84	24.69	39.30	43.80	677.61	1,791.24	1,305.05	1,263.17	41.88	31.164	
4,600.00	4,361.34	4,165.87	3,559.18	25.49	40.61	44.05	700.34	1,847.91	1,339.02	1,295.72	43.30	30.922	
4,700.00	4,451.61	4,259.77	3,630.52	26.30	41.93	44.29	723.07	1,904.57	1,373.01	1,328.28	44.73	30.692	
4,800.00	4,541.88	4,353.66	3,701.86	27.11	43.25	44.51	745.79	1,961.23	1,407.02	1,360.85	46.17	30.474	
4,900.00	4,632.15	4,447.56	3,773.20	27.92	44.57	44.73	768.52	2,017.90	1,441.05	1,393.44	47.61	30.267	
5,000.00	4,722.43	4,541.46	3,844.54	28.74	45.89	44.93	791.25	2,074.56	1,475.10	1,426.04	49.06	30.069	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,635.35	3,915.88	29.55	47.21	45.13	813.97	2,131.22	1,509.16	1,458.66	50.51	29.881	
5,200.00	4,902.97	4,729.25	3,987.22	30.37	48.53	45.32	836.70	2,187.88	1,543.24	1,491.28	51.96	29.702	
5,300.00	4,993.24	4,823.15	4,058.56	31.18	49.86	45.50	859.43	2,244.55	1,577.33	1,523.92	53.41	29.530	
5,400.00	5,083.51	4,917.04	4,129.90	32.00	51.18	45.67	882.15	2,301.21	1,611.44	1,556.57	54.87	29.367	
5,500.00	5,173.79	5,010.94	4,201.24	32.82	52.50	45.83	904.88	2,357.87	1,645.56	1,589.22	56.33	29.210	
5,600.00	5,264.06	5,104.84	4,272.58	33.63	53.82	45.99	927.60	2,414.53	1,679.69	1,621.89	57.80	29.061	
5,700.00	5,354.33	5,201.27	4,343.92	34.45	55.18	46.14	950.33	2,471.20	1,713.83	1,654.54	59.29	28.908	
5,800.00	5,444.60	5,307.37	4,415.26	35.27	56.68	46.29	973.06	2,527.86	1,747.98	1,687.13	60.85	28.725	
5,900.00	5,534.88	5,386.52	4,486.60	36.09	57.79	46.43	995.78	2,584.52	1,782.14	1,719.93	62.21	28.648	
6,000.00	5,625.15	5,480.42	4,557.94	36.91	59.12	46.57	1,018.51	2,641.18	1,816.31	1,752.63	63.68	28.522	
6,100.00	5,715.42	5,574.32	4,629.28	37.74	60.44	46.70	1,041.24	2,697.85	1,850.48	1,785.33	65.16	28.400	
6,200.00	5,805.69	5,668.21	4,700.62	38.56	61.77	46.82	1,063.96	2,754.51	1,884.67	1,818.04	66.63	28.284	
6,300.00	5,895.96	5,762.11	4,771.96	39.38	63.09	46.94	1,086.69	2,811.17	1,918.86	1,850.75	68.11	28.171	
6,400.00	5,986.24	5,856.01	4,843.30	40.20	64.42	47.06	1,109.42	2,867.83	1,953.07	1,883.47	69.60	28.063	
6,500.00	6,076.51	5,949.90	4,914.64	41.03	65.74	47.17	1,132.14	2,924.50	1,987.27	1,916.20	71.08	27.959	
6,600.00	6,166.78	6,043.80	4,985.98	41.85	67.07	47.28	1,154.87	2,981.16	2,021.49	1,948.93	72.56	27.859	
6,700.00	6,257.05	6,137.70	5,057.32	42.67	68.39	47.39	1,177.59	3,037.82	2,055.71	1,981.66	74.05	27.762	
6,800.00	6,347.33	6,231.59	5,128.66	43.50	69.72	47.49	1,200.32	3,094.49	2,089.94	2,014.40	75.54	27.668	
6,900.00	6,437.60	6,325.49	5,200.00	44.32	71.05	47.59	1,223.05	3,151.15	2,124.17	2,047.14	77.02	27.578	
7,000.00	6,527.87	6,419.39	5,271.34	45.15	72.37	47.68	1,245.77	3,207.81	2,158.41	2,079.89	78.51	27.491	
7,100.00	6,618.14	6,513.28	5,342.68	45.98	73.70	47.77	1,268.50	3,264.47	2,192.65	2,112.64	80.00	27.407	
7,200.00	6,708.41	6,607.18	5,414.02	46.80	75.02	47.86	1,291.23	3,321.14	2,226.90	2,145.40	81.50	27.325	
7,300.00	6,798.69	6,701.07	5,485.36	47.63	76.35	47.95	1,313.95	3,377.80	2,261.15	2,178.16	82.99	27.246	
7,400.00	6,888.96	6,794.97	5,556.70	48.45	77.68	48.04	1,336.68	3,434.46	2,295.41	2,210.92	84.48	27.170	
7,500.00	6,979.23	6,888.87	5,628.04	49.28	79.00	48.12	1,359.41	3,491.12	2,329.67	2,243.69	85.98	27.096	
7,600.00	7,069.50	6,982.76	5,699.38	50.11	80.33	48.20	1,382.13	3,547.79	2,363.93	2,276.46	87.47	27.024	
7,692.09	7,152.63	7,069.23	5,765.07	50.87	81.55	48.27	1,403.06	3,599.96	2,395.49	2,306.64	88.85	26.960	
7,700.00	7,159.79	7,076.66	5,770.72	50.93	81.66	47.35	1,404.86	3,604.45	2,398.20	2,309.23	88.97	26.955	
7,750.00	7,205.70	7,123.68	5,806.44	51.32	82.32	40.04	1,416.24	3,632.82	2,415.11	2,325.50	89.62	26.950	
7,800.00	7,252.52	7,170.52	5,842.03	51.66	82.98	29.89	1,427.58	3,661.09	2,431.61	2,341.51	90.10	26.987	
7,850.00	7,299.89	7,216.83	5,877.22	51.96	83.64	17.08	1,438.78	3,689.04	2,447.58	2,357.16	90.43	27.067	
7,900.00	7,347.44	7,262.26	5,911.73	52.20	84.28	2.98	1,449.78	3,716.45	2,462.97	2,372.39	90.59	27.190	
7,950.00	7,394.83	7,306.47	5,945.32	52.39	84.91	-10.25	1,460.48	3,743.13	2,477.73	2,387.14	90.58	27.353	
8,000.00	7,441.68	7,349.11	5,977.71	52.53	85.51	-21.16	1,470.80	3,768.86	2,491.82	2,401.39	90.42	27.557	
8,050.00	7,487.65	7,389.86	6,008.68	52.62	86.08	-29.51	1,480.66	3,793.45	2,505.24	2,415.12	90.12	27.800	
8,100.00	7,532.37	7,428.41	6,037.97	52.67	86.63	-35.70	1,489.99	3,816.72	2,518.00	2,428.33	89.67	28.082	
8,150.00	7,575.52	7,464.47	6,065.36	52.67	87.14	-40.29	1,498.72	3,838.48	2,530.12	2,441.04	89.09	28.401	
8,200.00	7,616.76	7,502.24	6,090.66	52.63	87.67	-43.69	1,506.78	3,858.57	2,541.63	2,453.21	88.42	28.745	
8,250.00	7,655.77	7,528.04	6,113.66	52.55	88.04	-46.25	1,514.11	3,876.84	2,552.57	2,464.98	87.58	29.145	
8,300.00	7,692.27	7,555.06	6,134.19	52.44	88.42	-48.15	1,520.65	3,893.15	2,562.96	2,476.27	86.69	29.565	
8,350.00	7,725.97	7,578.63	6,152.10	52.29	88.75	-49.56	1,526.35	3,907.37	2,572.84	2,487.12	85.72	30.013	
8,400.00	7,756.62	7,601.44	6,167.24	52.12	89.08	-50.58	1,531.18	3,919.40	2,582.25	2,497.52	84.73	30.477	
8,450.00	7,783.98	7,614.71	6,179.51	51.92	89.26	-51.26	1,535.09	3,929.14	2,591.19	2,507.54	83.66	30.975	
8,500.00	7,807.85	7,626.94	6,188.81	51.70	89.44	-51.66	1,538.05	3,936.52	2,599.68	2,517.10	82.59	31.477	
8,550.00	7,828.05	7,635.18	6,195.06	51.45	89.55	-51.81	1,540.04	3,941.49	2,607.72	2,526.19	81.53	31.985	
8,600.00	7,844.41	7,639.34	6,198.23	51.20	89.61	-51.74	1,541.05	3,944.01	2,615.28	2,534.79	80.49	32.491	
8,650.00	7,856.82	7,639.41	6,198.28	50.93	89.61	-51.48	1,541.06	3,944.05	2,622.33	2,542.84	79.50	32.987	
8,700.00	7,865.18	7,635.39	6,195.22	50.65	89.56	-51.05	1,540.09	3,941.62	2,628.83	2,550.27	78.55	33.465	
8,750.00	7,869.43	7,627.29	6,189.07	50.36	89.44	-50.45	1,538.13	3,936.73	2,634.70	2,557.02	77.68	33.918	
8,776.25	7,870.00	7,621.43	6,184.62	50.21	89.36	-50.08	1,536.71	3,933.20	2,637.51	2,560.26	77.25	34.143	
8,800.00	7,870.00	7,615.64	6,180.22	50.08	89.28	-49.96	1,535.31	3,929.70	2,640.06	2,563.18	76.88	34.339	
8,900.00	7,870.00	7,591.23	6,161.67	49.53	88.93	-49.44	1,529.40	3,914.97	2,652.96	2,577.39	75.57	35.107	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,566.82	6,143.13	49.01	88.59	-48.93	1,523.49	3,900.24	2,669.32	2,594.68	74.64	35.762	
9,100.00	7,870.00	7,542.41	6,124.58	48.52	88.24	-48.41	1,517.59	3,885.51	2,689.09	2,614.99	74.10	36.290	
9,200.00	7,870.00	7,518.00	6,106.04	48.06	87.90	-47.90	1,511.68	3,870.78	2,712.18	2,638.25	73.93	36.685	
9,300.00	7,870.00	7,493.59	6,087.49	47.63	87.55	-47.38	1,505.77	3,856.05	2,738.51	2,664.40	74.11	36.951	
9,400.00	7,870.00	7,469.18	6,068.95	47.22	87.21	-46.87	1,499.86	3,841.32	2,767.99	2,693.38	74.61	37.098	
9,500.00	7,870.00	7,444.78	6,050.40	46.83	86.86	-46.35	1,493.96	3,826.59	2,800.52	2,725.12	75.40	37.144	
9,600.00	7,870.00	7,420.37	6,031.86	46.48	86.52	-45.84	1,488.05	3,811.86	2,835.99	2,759.57	76.42	37.109	
9,700.00	7,870.00	7,395.96	6,013.31	46.14	86.17	-45.33	1,482.14	3,797.13	2,874.30	2,796.65	77.65	37.014	
9,800.00	7,870.00	7,371.55	5,994.77	45.83	85.83	-44.82	1,476.23	3,782.40	2,915.34	2,836.29	79.05	36.880	
9,900.00	7,870.00	7,347.14	5,976.22	45.54	85.48	-44.31	1,470.32	3,767.67	2,958.98	2,878.41	80.57	36.726	
10,000.00	7,870.00	7,322.73	5,957.68	45.27	85.14	-43.80	1,464.42	3,752.94	3,005.12	2,922.94	82.18	36.566	
10,100.00	7,870.00	7,301.67	5,939.13	45.03	84.84	-43.30	1,458.51	3,738.22	3,053.64	2,969.76	83.88	36.404	
10,200.00	7,870.00	7,273.92	5,920.59	44.82	84.45	-42.79	1,452.60	3,723.49	3,104.44	3,018.87	85.57	36.279	
10,300.00	7,870.00	7,249.51	5,902.04	44.66	84.10	-42.29	1,446.69	3,708.76	3,157.39	3,070.10	87.30	36.169	
10,400.00	7,870.00	7,225.10	5,883.50	44.56	83.76	-41.78	1,440.79	3,694.03	3,212.41	3,123.39	89.02	36.088	
10,500.00	7,870.00	7,200.69	5,864.95	44.58	83.41	-41.28	1,434.88	3,679.30	3,269.37	3,178.65	90.72	36.040	
10,600.00	7,870.00	7,176.28	5,846.41	44.82	83.07	-40.78	1,428.97	3,664.57	3,328.18	3,235.80	92.38	36.026	
10,700.00	7,870.00	12,148.06	7,870.00	45.36	112.26	-90.03	-663.51	5,262.65	3,349.04	3,253.97	95.07	35.227	
10,800.00	7,870.00	12,248.06	7,870.00	46.15	112.21	-90.03	-763.51	5,262.32	3,349.05	3,252.40	96.65	34.652	
10,900.00	7,870.00	12,348.06	7,870.00	47.09	112.18	-90.03	-863.51	5,261.98	3,349.05	3,250.73	98.33	34.061	
11,000.00	7,870.00	12,448.06	7,870.00	48.13	112.17	-90.03	-963.51	5,261.65	3,349.06	3,248.96	100.10	33.458	
11,100.00	7,870.00	12,548.06	7,870.00	49.22	112.16	-90.03	-1,063.51	5,261.31	3,349.06	3,247.09	101.97	32.844	
11,200.00	7,870.00	12,648.06	7,870.00	50.37	112.18	-90.03	-1,163.51	5,260.98	3,349.07	3,245.15	103.92	32.228	
11,300.00	7,870.00	12,748.06	7,870.00	51.55	112.21	-90.03	-1,263.51	5,260.64	3,349.07	3,243.12	105.95	31.610	
11,400.00	7,870.00	12,848.06	7,870.00	52.76	112.25	-90.03	-1,363.51	5,260.31	3,349.07	3,241.01	108.06	30.993	
11,500.00	7,870.00	12,948.06	7,870.00	54.00	112.32	-90.03	-1,463.51	5,259.97	3,349.08	3,238.84	110.24	30.379	
11,600.00	7,870.00	13,048.06	7,870.00	55.27	112.40	-90.03	-1,563.51	5,259.64	3,349.08	3,236.59	112.49	29.772	
11,700.00	7,870.00	13,148.06	7,870.00	56.56	112.50	-90.03	-1,663.51	5,259.30	3,349.09	3,234.28	114.81	29.171	
11,800.00	7,870.00	13,248.06	7,870.00	57.88	112.61	-90.03	-1,763.51	5,258.97	3,349.09	3,231.91	117.18	28.580	
11,900.00	7,870.00	13,348.06	7,870.00	59.21	112.75	-90.03	-1,863.51	5,258.63	3,349.10	3,229.48	119.61	27.999	
12,000.00	7,870.00	13,448.06	7,870.00	60.57	112.91	-90.03	-1,963.51	5,258.29	3,349.10	3,227.00	122.10	27.430	
12,100.00	7,870.00	13,548.06	7,870.00	61.94	113.09	-90.03	-2,063.50	5,257.96	3,349.10	3,224.47	124.63	26.872	
12,200.00	7,870.00	13,648.06	7,870.00	63.33	113.29	-90.03	-2,163.50	5,257.62	3,349.11	3,221.89	127.21	26.326	
12,300.00	7,870.00	13,748.06	7,870.00	64.74	113.51	-90.03	-2,263.50	5,257.29	3,349.11	3,219.27	129.84	25.794	
12,400.00	7,870.00	13,848.06	7,870.00	66.16	113.75	-90.03	-2,363.50	5,256.95	3,349.12	3,216.61	132.51	25.275	
12,500.00	7,870.00	13,948.06	7,870.00	67.59	114.02	-90.03	-2,463.50	5,256.62	3,349.12	3,213.90	135.22	24.768	
12,600.00	7,870.00	14,048.06	7,870.00	69.04	114.32	-90.03	-2,563.50	5,256.28	3,349.13	3,211.16	137.96	24.276	
12,700.00	7,870.00	14,148.06	7,870.00	70.51	114.64	-90.03	-2,663.50	5,255.95	3,349.13	3,208.39	140.74	23.796	
12,800.00	7,870.00	14,248.06	7,870.00	71.98	114.99	-90.03	-2,763.50	5,255.61	3,349.13	3,205.58	143.55	23.330	
12,900.00	7,870.00	14,348.06	7,870.00	73.47	115.37	-90.03	-2,863.50	5,255.28	3,349.14	3,202.74	146.40	22.877	
13,000.00	7,870.00	14,448.06	7,870.00	74.96	115.77	-90.03	-2,963.50	5,254.94	3,349.14	3,199.87	149.27	22.437	
13,100.00	7,870.00	14,548.06	7,870.00	76.47	116.21	-90.03	-3,063.50	5,254.61	3,349.15	3,196.98	152.17	22.009	
13,200.00	7,870.00	14,648.06	7,870.00	77.99	116.67	-90.03	-3,163.50	5,254.27	3,349.15	3,194.05	155.10	21.594	
13,300.00	7,870.00	14,748.06	7,870.00	79.51	117.17	-90.03	-3,263.50	5,253.94	3,349.16	3,191.11	158.05	21.191	
13,400.00	7,870.00	14,848.06	7,870.00	81.05	117.69	-90.03	-3,363.50	5,253.60	3,349.16	3,188.14	161.02	20.799	
13,500.00	7,870.00	14,948.06	7,870.00	82.59	118.25	-90.03	-3,463.50	5,253.27	3,349.16	3,185.14	164.02	20.419	
13,600.00	7,870.00	15,048.06	7,870.00	84.14	118.84	-90.03	-3,563.50	5,252.93	3,349.17	3,182.13	167.04	20.050	
13,700.00	7,870.00	15,148.06	7,870.00	85.70	119.47	-90.03	-3,663.50	5,252.60	3,349.17	3,179.10	170.08	19.692	
13,800.00	7,870.00	15,248.06	7,870.00	87.26	120.13	-90.03	-3,763.50	5,252.26	3,349.18	3,176.05	173.13	19.345	
13,900.00	7,870.00	15,348.06	7,870.00	88.83	120.82	-90.03	-3,863.49	5,251.93	3,349.18	3,172.98	176.21	19.007	
14,000.00	7,870.00	15,448.06	7,870.00	90.41	121.54	-90.03	-3,963.49	5,251.59	3,349.19	3,169.89	179.30	18.680	
14,100.00	7,870.00	15,548.06	7,870.00	92.00	122.30	-90.03	-4,063.49	5,251.25	3,349.19	3,166.79	182.40	18.361	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	15,648.06	7,870.00	93.59	123.09	-90.03	-4,163.49	5,250.92	3,349.19	3,163.67	185.53	18.052	
14,300.00	7,870.00	15,748.06	7,870.00	95.18	123.92	-90.03	-4,263.49	5,250.58	3,349.20	3,160.54	188.66	17.752	
14,400.00	7,870.00	15,848.06	7,870.00	96.79	124.78	-90.03	-4,363.49	5,250.25	3,349.20	3,157.39	191.81	17.461	
14,500.00	7,870.00	15,948.06	7,870.00	98.39	125.66	-90.03	-4,463.49	5,249.91	3,349.21	3,154.23	194.98	17.178	
14,600.00	7,870.00	16,048.06	7,870.00	100.00	126.58	-90.03	-4,563.49	5,249.58	3,349.21	3,151.06	198.15	16.902	
14,700.00	7,870.00	16,148.06	7,870.00	101.62	127.53	-90.03	-4,663.49	5,249.24	3,349.22	3,147.88	201.34	16.635	
14,800.00	7,870.00	16,248.06	7,870.00	103.24	128.51	-90.03	-4,763.49	5,248.91	3,349.22	3,144.68	204.54	16.375	
14,900.00	7,870.00	16,348.06	7,870.00	104.87	129.52	-90.03	-4,863.49	5,248.57	3,349.22	3,141.48	207.75	16.122	
15,000.00	7,870.00	16,448.06	7,870.00	106.50	130.56	-90.03	-4,963.49	5,248.24	3,349.23	3,138.26	210.97	15.875	
15,100.00	7,870.00	16,548.06	7,870.00	108.13	131.62	-90.03	-5,063.49	5,247.90	3,349.23	3,135.03	214.20	15.636	
15,200.00	7,870.00	16,648.06	7,870.00	109.77	132.72	-90.03	-5,163.49	5,247.57	3,349.24	3,131.80	217.44	15.403	
15,300.00	7,870.00	16,748.06	7,870.00	111.41	133.83	-90.03	-5,263.49	5,247.23	3,349.24	3,128.55	220.69	15.176	
15,400.00	7,870.00	16,848.06	7,870.00	113.05	134.97	-90.03	-5,363.49	5,246.90	3,349.25	3,125.30	223.94	14.956	
15,500.00	7,870.00	16,948.06	7,870.00	114.70	136.13	-90.03	-5,463.49	5,246.56	3,349.25	3,122.04	227.21	14.741	
15,600.00	7,870.00	17,048.06	7,870.00	116.35	137.32	-90.03	-5,563.49	5,246.23	3,349.25	3,118.77	230.48	14.531	
15,700.00	7,870.00	17,148.06	7,870.00	118.00	138.52	-90.03	-5,663.48	5,245.89	3,349.26	3,115.49	233.76	14.328	
15,800.00	7,870.00	17,248.06	7,870.00	119.66	139.75	-90.03	-5,763.48	5,245.56	3,349.26	3,112.21	237.05	14.129	
15,900.00	7,870.00	17,348.06	7,870.00	121.32	141.00	-90.03	-5,863.48	5,245.22	3,349.27	3,108.92	240.35	13.935	
16,000.00	7,870.00	17,448.06	7,870.00	122.98	142.26	-90.03	-5,963.48	5,244.89	3,349.27	3,105.62	243.65	13.746	
16,100.00	7,870.00	17,548.06	7,870.00	124.65	143.54	-90.03	-6,063.48	5,244.55	3,349.28	3,102.32	246.96	13.562	
16,200.00	7,870.00	17,648.06	7,870.00	126.32	144.84	-90.03	-6,163.48	5,244.21	3,349.28	3,099.01	250.27	13.383	
16,300.00	7,870.00	17,748.06	7,870.00	127.99	146.16	-90.03	-6,263.48	5,243.88	3,349.28	3,095.69	253.59	13.207	
16,400.00	7,870.00	17,848.06	7,870.00	129.66	147.49	-90.03	-6,363.48	5,243.54	3,349.29	3,092.37	256.92	13.036	
16,500.00	7,870.00	17,948.06	7,870.00	131.33	148.83	-90.03	-6,463.48	5,243.21	3,349.29	3,089.04	260.25	12.870	
16,600.00	7,870.00	18,048.06	7,870.00	133.01	150.19	-90.03	-6,563.48	5,242.87	3,349.30	3,085.71	263.59	12.707	
16,700.00	7,870.00	18,148.06	7,870.00	134.69	151.56	-90.03	-6,663.48	5,242.54	3,349.30	3,082.37	266.93	12.548	
16,800.00	7,870.00	18,248.06	7,870.00	136.37	152.95	-90.03	-6,763.48	5,242.20	3,349.31	3,079.03	270.28	12.392	
16,900.00	7,870.00	18,348.06	7,870.00	138.06	154.34	-90.03	-6,863.48	5,241.87	3,349.31	3,075.68	273.63	12.240	
17,000.00	7,870.00	18,448.06	7,870.00	139.74	155.75	-90.03	-6,963.48	5,241.53	3,349.31	3,072.33	276.98	12.092	
17,100.00	7,870.00	18,548.06	7,870.00	141.43	157.17	-90.03	-7,063.48	5,241.20	3,349.32	3,068.97	280.34	11.947	
17,200.00	7,870.00	18,648.06	7,870.00	143.12	158.60	-90.03	-7,163.48	5,240.86	3,349.32	3,065.61	283.71	11.806	
17,300.00	7,870.00	18,748.06	7,870.00	144.81	160.04	-90.03	-7,263.48	5,240.53	3,349.33	3,062.25	287.08	11.667	
17,400.00	7,870.00	18,848.06	7,870.00	146.50	161.49	-90.03	-7,363.48	5,240.19	3,349.33	3,058.88	290.45	11.532	
17,500.00	7,870.00	18,948.06	7,870.00	148.19	162.95	-90.03	-7,463.47	5,239.86	3,349.34	3,055.51	293.83	11.399	
17,600.00	7,870.00	19,048.06	7,870.00	149.89	164.42	-90.03	-7,563.47	5,239.52	3,349.34	3,052.13	297.21	11.269	
17,700.00	7,870.00	19,148.06	7,870.00	151.59	165.89	-90.03	-7,663.47	5,239.19	3,349.34	3,048.75	300.59	11.143	
17,800.00	7,870.00	19,248.06	7,870.00	153.29	167.38	-90.03	-7,763.47	5,238.85	3,349.35	3,045.37	303.98	11.018	
17,900.00	7,870.00	19,348.06	7,870.00	154.99	168.87	-90.03	-7,863.47	5,238.52	3,349.35	3,041.98	307.37	10.897	
18,000.00	7,870.00	19,448.06	7,870.00	156.69	170.37	-90.03	-7,963.47	5,238.18	3,349.36	3,038.60	310.76	10.778	
18,100.00	7,870.00	19,548.06	7,870.00	158.39	171.87	-90.03	-8,063.47	5,237.84	3,349.36	3,035.20	314.16	10.661	
18,200.00	7,870.00	19,648.06	7,870.00	160.09	173.39	-90.03	-8,163.47	5,237.51	3,349.37	3,031.81	317.56	10.547	
18,300.00	7,870.00	19,748.06	7,870.00	161.80	174.91	-90.03	-8,263.47	5,237.17	3,349.37	3,028.41	320.96	10.435	
18,400.00	7,870.00	19,848.06	7,870.00	163.51	176.43	-90.03	-8,363.47	5,236.84	3,349.37	3,025.01	324.37	10.326	
18,400.02	7,870.00	19,848.09	7,870.00	163.51	176.43	-90.03	-8,363.49	5,236.84	3,349.37	3,025.01	324.37	10.326	
18,455.45	7,870.00	19,889.26	7,870.00	164.45	177.06	-90.03	-8,404.66	5,236.70	3,349.41	3,023.06	326.35	10.263	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.38	-0.73	109.76	109.76				
100.00	100.00	102.00	98.00	0.13	0.14	90.38	-0.73	109.76	109.76	109.49	0.28	397.660	
200.00	200.00	198.00	198.00	0.49	0.49	90.38	-0.73	109.76	109.76	108.78	0.98	112.161	CC, ES
300.00	300.00	294.58	294.57	0.85	0.83	90.09	-0.18	111.22	111.27	109.59	1.68	66.124	
400.00	400.00	390.88	390.74	1.21	1.18	89.25	1.52	115.71	115.94	113.56	2.39	48.579	
500.00	500.00	486.75	486.27	1.57	1.53	87.98	4.34	123.17	123.81	120.72	3.09	40.070	
600.00	600.00	581.98	580.85	1.93	1.90	86.46	8.26	133.55	134.90	131.11	3.79	35.593	
700.00	700.00	676.37	674.18	2.29	2.29	84.84	13.25	146.72	149.23	144.75	4.49	33.272	
800.00	800.00	769.73	765.98	2.64	2.69	83.25	19.24	162.58	166.81	161.64	5.17	32.241	
900.00	900.00	861.88	856.00	3.00	3.13	81.76	26.19	180.96	187.61	181.75	5.85	32.044	
1,000.00	1,000.00	952.65	944.02	3.36	3.59	80.42	34.03	201.71	211.56	205.04	6.53	32.409	
1,100.00	1,100.00	1,041.90	1,029.84	3.72	4.07	79.24	42.71	224.65	238.61	231.43	7.18	33.238	
1,200.00	1,200.00	1,129.50	1,113.28	4.08	4.59	78.20	52.13	249.58	268.67	260.84	7.83	34.300	
1,300.00	1,300.00	1,215.34	1,194.22	4.44	5.13	77.31	62.24	276.31	301.65	293.18	8.47	35.613	
1,400.00	1,399.98	1,299.82	1,273.00	4.79	5.70	33.34	73.02	304.82	336.09	327.00	9.09	36.974	
1,500.00	1,499.84	1,383.44	1,350.06	5.15	6.31	32.67	84.49	335.17	370.56	360.86	9.70	38.203	
1,600.00	1,599.45	1,466.20	1,425.37	5.51	6.96	32.27	96.63	367.27	404.98	394.67	10.31	39.291	
1,700.00	1,698.70	1,548.12	1,498.91	5.87	7.64	32.06	109.39	401.03	439.31	428.39	10.91	40.253	
1,800.00	1,797.47	1,629.21	1,570.66	6.24	8.36	32.00	122.75	436.38	473.52	462.00	11.52	41.098	
1,900.00	1,895.62	1,709.50	1,640.61	6.63	9.11	32.05	136.69	473.23	507.61	495.47	12.13	41.831	
2,000.00	1,993.06	1,788.99	1,708.76	7.04	9.90	32.19	151.16	511.50	541.55	528.79	12.76	42.450	
2,100.00	2,089.64	1,867.71	1,775.10	7.48	10.72	32.40	166.14	551.14	575.35	561.95	13.39	42.953	
2,200.00	2,185.27	1,945.66	1,839.62	7.94	11.59	32.67	181.61	592.05	608.99	594.94	14.05	43.344	
2,300.00	2,279.82	2,022.87	1,902.33	8.45	12.48	32.98	197.53	634.18	642.49	627.76	14.73	43.620	
2,400.00	2,373.17	2,100.00	1,963.74	8.99	13.41	33.34	214.04	677.82	675.83	660.38	15.45	43.751	
2,500.00	2,465.21	2,175.12	2,022.33	9.58	14.38	33.70	230.67	721.81	709.02	692.83	16.19	43.801	
2,574.08	2,532.50	2,230.82	2,064.95	10.04	15.11	34.00	243.34	755.33	733.52	716.75	16.77	43.744	
2,600.00	2,555.89	2,250.19	2,079.61	10.21	15.37	34.20	247.82	767.18	742.16	725.18	16.98	43.716	
2,700.00	2,646.16	2,324.15	2,134.80	10.88	16.39	34.91	265.23	813.24	777.09	759.29	17.80	43.658	
2,800.00	2,736.44	2,397.43	2,188.20	11.57	17.44	35.54	282.97	860.17	814.47	795.83	18.65	43.683	
2,900.00	2,826.71	2,489.21	2,254.34	12.27	18.79	36.23	305.48	919.69	853.03	833.21	19.82	43.045	
3,000.00	2,916.98	2,581.00	2,320.49	13.00	20.14	36.87	327.98	979.21	891.69	870.67	21.02	42.426	
3,100.00	3,007.25	2,672.78	2,386.64	13.73	21.51	37.46	350.48	1,038.73	930.43	908.18	22.24	41.831	
3,200.00	3,097.52	2,764.57	2,452.79	14.48	22.88	38.00	372.98	1,098.25	969.25	945.76	23.49	41.262	
3,300.00	3,187.80	2,856.35	2,518.93	15.23	24.25	38.50	395.49	1,157.77	1,008.13	983.38	24.76	40.721	
3,400.00	3,278.07	2,948.14	2,585.08	15.99	25.63	38.96	417.99	1,217.29	1,047.08	1,021.04	26.04	40.208	
3,500.00	3,368.34	3,039.92	2,651.23	16.76	27.02	39.39	440.49	1,276.81	1,086.08	1,058.74	27.34	39.722	
3,600.00	3,458.61	3,131.71	2,717.37	17.54	28.41	39.79	462.99	1,336.33	1,125.13	1,096.48	28.66	39.263	
3,700.00	3,548.89	3,223.49	2,783.52	18.32	29.80	40.16	485.50	1,395.85	1,164.23	1,134.25	29.98	38.830	
3,800.00	3,639.16	3,315.28	2,849.67	19.10	31.19	40.51	508.00	1,455.37	1,203.36	1,172.04	31.32	38.421	
3,900.00	3,729.43	3,407.06	2,915.82	19.89	32.58	40.84	530.50	1,514.89	1,242.53	1,209.86	32.67	38.035	
4,000.00	3,819.70	3,501.16	2,981.96	20.69	34.02	41.14	553.00	1,574.41	1,281.73	1,247.69	34.04	37.651	
4,100.00	3,909.98	3,609.37	3,048.11	21.48	35.67	41.43	575.51	1,633.93	1,320.96	1,285.43	35.53	37.176	
4,200.00	4,000.25	3,682.41	3,114.26	22.28	36.78	41.71	598.01	1,693.45	1,360.22	1,323.45	36.76	36.999	
4,300.00	4,090.52	3,774.20	3,180.40	23.08	38.18	41.96	620.51	1,752.97	1,399.50	1,361.35	38.14	36.690	
4,400.00	4,180.79	3,865.98	3,246.55	23.88	39.58	42.20	643.01	1,812.49	1,438.80	1,399.27	39.53	36.398	
4,500.00	4,271.06	3,957.77	3,312.70	24.69	40.99	42.43	665.52	1,872.01	1,478.13	1,437.21	40.92	36.120	
4,600.00	4,361.34	4,049.55	3,378.84	25.49	42.39	42.65	688.02	1,931.53	1,517.47	1,475.15	42.32	35.857	
4,700.00	4,451.61	4,141.34	3,444.99	26.30	43.80	42.86	710.52	1,991.05	1,556.83	1,513.11	43.72	35.608	
4,800.00	4,541.88	4,233.12	3,511.14	27.11	45.20	43.06	733.02	2,050.58	1,596.21	1,551.08	45.13	35.370	
4,900.00	4,632.15	4,324.91	3,577.29	27.92	46.61	43.24	755.53	2,110.10	1,635.61	1,589.07	46.54	35.145	
5,000.00	4,722.43	4,416.69	3,643.43	28.74	48.02	43.42	778.03	2,169.62	1,675.01	1,627.06	47.95	34.930	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,508.48	3,709.58	29.55	49.42	43.59	800.53	2,229.14	1,714.43	1,665.06	49.37	34.725	
5,200.00	4,902.97	4,600.26	3,775.73	30.37	50.83	43.76	823.03	2,288.66	1,753.87	1,703.07	50.79	34.529	
5,300.00	4,993.24	4,707.95	3,841.87	31.18	52.49	43.91	845.54	2,348.18	1,793.31	1,740.97	52.35	34.259	
5,400.00	5,083.51	4,783.83	3,908.02	32.00	53.65	44.06	868.04	2,407.70	1,832.77	1,779.12	53.65	34.164	
5,500.00	5,173.79	4,875.62	3,974.17	32.82	55.06	44.20	890.54	2,467.22	1,872.23	1,817.15	55.08	33.993	
5,600.00	5,264.06	4,967.40	4,040.32	33.63	56.47	44.34	913.04	2,526.74	1,911.71	1,855.20	56.51	33.830	
5,700.00	5,354.33	5,059.19	4,106.46	34.45	57.88	44.47	935.55	2,586.26	1,951.19	1,893.24	57.95	33.673	
5,800.00	5,444.60	5,150.97	4,172.61	35.27	59.29	44.60	958.05	2,645.78	1,990.68	1,931.30	59.38	33.523	
5,900.00	5,534.88	5,242.76	4,238.76	36.09	60.70	44.72	980.55	2,705.30	2,030.18	1,969.36	60.82	33.379	
6,000.00	5,625.15	5,334.54	4,304.90	36.91	62.11	44.84	1,003.05	2,764.82	2,069.69	2,007.42	62.26	33.240	
6,100.00	5,715.42	5,426.33	4,371.05	37.74	63.53	44.95	1,025.56	2,824.34	2,109.20	2,045.50	63.71	33.108	
6,200.00	5,805.69	5,518.11	4,437.20	38.56	64.94	45.06	1,048.06	2,883.86	2,148.72	2,083.57	65.15	32.980	
6,300.00	5,895.96	5,609.90	4,503.34	39.38	66.35	45.16	1,070.56	2,943.38	2,188.25	2,121.65	66.60	32.857	
6,400.00	5,986.24	5,701.68	4,569.49	40.20	67.76	45.26	1,093.06	3,002.90	2,227.78	2,159.73	68.05	32.738	
6,500.00	6,076.51	5,806.53	4,635.64	41.03	69.38	45.36	1,115.57	3,062.42	2,267.32	2,197.72	69.61	32.574	
6,600.00	6,166.78	5,885.25	4,701.79	41.85	70.59	45.45	1,138.07	3,121.94	2,306.87	2,235.92	70.95	32.514	
6,700.00	6,257.05	5,977.04	4,767.93	42.67	72.00	45.54	1,160.57	3,181.46	2,346.41	2,274.01	72.40	32.408	
6,800.00	6,347.33	6,068.82	4,834.08	43.50	73.41	45.63	1,183.07	3,240.98	2,385.97	2,312.11	73.86	32.305	
6,900.00	6,437.60	6,160.61	4,900.23	44.32	74.83	45.72	1,205.58	3,300.50	2,425.53	2,350.21	75.31	32.206	
7,000.00	6,527.87	6,252.39	4,966.37	45.15	76.24	45.80	1,228.08	3,360.02	2,465.09	2,388.32	76.77	32.110	
7,100.00	6,618.14	6,344.18	5,032.52	45.98	77.65	45.88	1,250.58	3,419.54	2,504.65	2,426.43	78.23	32.018	
7,200.00	6,708.41	6,435.96	5,098.67	46.80	79.07	45.95	1,273.08	3,479.06	2,544.23	2,464.54	79.69	31.928	
7,300.00	6,798.69	6,527.75	5,164.82	47.63	80.48	46.03	1,295.59	3,538.58	2,583.80	2,502.65	81.15	31.842	
7,400.00	6,888.96	6,619.53	5,230.96	48.45	81.90	46.10	1,318.09	3,598.10	2,623.38	2,540.77	82.61	31.758	
7,500.00	6,979.23	6,711.32	5,297.11	49.28	83.31	46.17	1,340.59	3,657.62	2,662.96	2,578.89	84.07	31.676	
7,600.00	7,069.50	6,803.10	5,363.26	50.11	84.72	46.24	1,363.09	3,717.14	2,702.54	2,617.01	85.53	31.597	
7,692.09	7,152.63	6,887.62	5,424.17	50.87	86.03	46.30	1,383.82	3,771.95	2,739.00	2,652.12	86.88	31.527	
7,700.00	7,159.79	6,905.11	5,429.40	50.93	86.30	45.43	1,385.60	3,776.67	2,742.13	2,655.05	87.08	31.491	
7,750.00	7,205.70	6,940.82	5,462.51	51.32	86.85	38.47	1,396.86	3,806.45	2,761.79	2,674.17	87.63	31.517	
7,800.00	7,252.52	6,986.54	5,495.46	51.66	87.55	28.69	1,408.07	3,836.10	2,781.16	2,693.04	88.12	31.562	
7,850.00	7,299.89	7,031.71	5,528.01	51.96	88.25	16.26	1,419.14	3,865.39	2,800.09	2,711.64	88.45	31.656	
7,900.00	7,347.44	7,075.97	5,559.91	52.20	88.93	2.56	1,429.99	3,894.09	2,818.51	2,729.87	88.64	31.798	
7,950.00	7,394.83	7,119.00	5,590.91	52.39	89.59	-10.27	1,440.54	3,922.00	2,836.32	2,747.65	88.67	31.987	
8,000.00	7,441.68	7,160.46	5,620.80	52.53	90.23	-20.78	1,450.71	3,948.88	2,853.47	2,764.91	88.56	32.221	
8,050.00	7,487.65	7,200.04	5,649.32	52.62	90.84	-28.73	1,460.41	3,974.55	2,869.91	2,781.60	88.31	32.498	
8,100.00	7,532.37	7,237.44	5,676.27	52.67	91.42	-34.54	1,469.58	3,998.80	2,885.62	2,797.69	87.93	32.817	
8,150.00	7,575.52	7,272.37	5,701.45	52.67	91.96	-38.76	1,478.14	4,021.46	2,900.58	2,813.15	87.43	33.175	
8,200.00	7,616.76	7,304.57	5,724.65	52.63	92.45	-41.82	1,486.04	4,042.34	2,914.79	2,827.96	86.83	33.570	
8,250.00	7,655.77	7,333.80	5,745.71	52.55	92.90	-44.04	1,493.20	4,061.29	2,928.23	2,842.10	86.12	34.000	
8,300.00	7,692.27	7,359.82	5,764.47	52.44	93.30	-45.65	1,499.58	4,078.16	2,940.91	2,855.57	85.34	34.461	
8,350.00	7,725.97	7,382.44	5,780.77	52.29	93.65	-46.80	1,505.13	4,092.83	2,952.83	2,868.34	84.49	34.949	
8,400.00	7,756.62	7,401.50	5,794.51	52.12	93.95	-47.59	1,509.80	4,105.19	2,963.99	2,880.39	83.59	35.458	
8,450.00	7,783.98	7,416.84	5,805.56	51.92	94.18	-48.08	1,513.56	4,115.14	2,974.38	2,891.72	82.66	35.983	
8,500.00	7,807.85	7,428.35	5,813.85	51.70	94.36	-48.34	1,516.38	4,122.60	2,983.99	2,902.27	81.72	36.517	
8,550.00	7,828.05	7,435.94	5,819.32	51.45	94.48	-48.40	1,518.24	4,127.52	2,992.80	2,912.03	80.77	37.052	
8,600.00	7,844.41	7,439.55	5,821.93	51.20	94.53	-48.29	1,519.13	4,129.86	3,000.78	2,920.94	79.85	37.582	
8,650.00	7,856.82	7,439.15	5,821.64	50.93	94.53	-48.03	1,519.03	4,129.61	3,007.89	2,928.94	78.95	38.098	
8,700.00	7,865.18	7,434.76	5,818.48	50.65	94.46	-47.64	1,517.96	4,126.76	3,014.08	2,935.98	78.10	38.591	
8,750.00	7,869.43	7,426.40	5,812.45	50.36	94.33	-47.14	1,515.91	4,121.34	3,019.30	2,941.99	77.31	39.056	
8,776.25	7,870.00	7,420.44	5,808.15	50.21	94.24	-46.84	1,514.44	4,117.47	3,021.62	2,944.71	76.91	39.285	
8,800.00	7,870.00	7,414.56	5,803.92	50.08	94.15	-46.73	1,513.00	4,113.66	3,023.68	2,947.10	76.58	39.486	
8,900.00	7,870.00	7,389.83	5,786.09	49.53	93.77	-46.27	1,506.94	4,097.62	3,034.23	2,958.87	75.36	40.263	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,365.09	5,768.27	49.01	93.39	-45.82	1,500.88	4,081.58	3,047.83	2,973.35	74.48	40.922	
9,100.00	7,870.00	7,340.35	5,750.44	48.52	93.00	-45.36	1,494.81	4,065.54	3,064.43	2,990.50	73.93	41.448	
9,200.00	7,870.00	7,315.62	5,732.61	48.06	92.62	-44.91	1,488.75	4,049.50	3,083.99	3,010.28	73.72	41.835	
9,300.00	7,870.00	7,309.12	5,714.79	47.63	92.52	-44.45	1,482.68	4,033.46	3,106.46	3,032.53	73.92	42.023	
9,400.00	7,870.00	7,266.14	5,696.96	47.22	91.86	-44.00	1,476.62	4,017.42	3,131.75	3,057.56	74.20	42.208	
9,500.00	7,870.00	7,241.41	5,679.13	46.83	91.48	-43.55	1,470.55	4,001.37	3,159.82	3,084.97	74.85	42.216	
9,600.00	7,870.00	7,216.67	5,661.30	46.48	91.10	-43.09	1,464.49	3,985.33	3,190.59	3,114.85	75.74	42.128	
9,700.00	7,870.00	7,208.07	5,643.48	46.14	90.97	-42.64	1,458.42	3,969.29	3,223.97	3,147.05	76.92	41.911	
9,800.00	7,870.00	7,167.20	5,625.65	45.83	90.34	-42.19	1,452.36	3,953.25	3,259.90	3,181.81	78.08	41.749	
9,900.00	7,870.00	7,142.46	5,607.82	45.54	89.95	-41.74	1,446.29	3,937.21	3,298.28	3,218.79	79.48	41.497	
10,000.00	7,870.00	7,117.72	5,590.00	45.27	89.57	-41.29	1,440.23	3,921.17	3,339.03	3,258.03	80.99	41.226	
10,100.00	7,870.00	7,107.01	5,572.17	45.03	89.41	-40.84	1,434.16	3,905.13	3,382.06	3,299.38	82.68	40.906	
10,200.00	7,870.00	7,068.25	5,554.34	44.82	88.81	-40.39	1,428.10	3,889.09	3,427.30	3,343.06	84.24	40.687	
10,300.00	7,870.00	7,043.51	5,536.52	44.66	88.43	-39.94	1,422.04	3,873.05	3,474.65	3,388.73	85.92	40.439	
10,400.00	7,870.00	7,018.78	5,518.69	44.56	88.05	-39.50	1,415.97	3,857.00	3,524.03	3,436.40	87.63	40.217	
10,500.00	7,870.00	7,005.96	5,500.86	44.58	87.85	-39.05	1,409.91	3,840.96	3,575.35	3,485.93	89.42	39.984	
10,600.00	7,870.00	6,969.30	5,483.03	44.82	87.29	-38.61	1,403.84	3,824.92	3,628.53	3,537.51	91.02	39.864	
10,700.00	7,870.00	6,944.57	5,465.21	45.36	86.90	-38.16	1,397.78	3,808.88	3,683.50	3,590.81	92.69	39.739	
10,800.00	7,870.00	12,156.22	7,480.00	46.15	121.58	-84.01	-764.73	5,612.25	3,719.27	3,618.23	101.04	36.809	
10,900.00	7,870.00	12,256.22	7,480.00	47.09	121.54	-84.01	-864.73	5,611.91	3,719.28	3,616.56	102.71	36.211	
11,000.00	7,870.00	12,356.22	7,480.00	48.13	121.50	-84.01	-964.73	5,611.57	3,719.28	3,614.81	104.47	35.600	
11,100.00	7,870.00	12,456.22	7,480.00	49.22	121.49	-84.01	-1,064.73	5,611.24	3,719.28	3,612.96	106.32	34.981	
11,200.00	7,870.00	12,556.22	7,480.00	50.37	121.48	-84.01	-1,164.73	5,610.90	3,719.29	3,611.03	108.26	34.356	
11,300.00	7,870.00	12,656.22	7,480.00	51.55	121.49	-84.01	-1,264.73	5,610.57	3,719.29	3,609.02	110.26	33.730	
11,400.00	7,870.00	12,756.22	7,480.00	52.76	121.51	-84.01	-1,364.73	5,610.23	3,719.29	3,606.94	112.35	33.105	
11,500.00	7,870.00	12,856.22	7,480.00	54.00	121.55	-84.01	-1,464.73	5,609.89	3,719.30	3,604.80	114.50	32.483	
11,600.00	7,870.00	12,956.22	7,480.00	55.27	121.60	-84.01	-1,564.73	5,609.56	3,719.30	3,602.58	116.72	31.866	
11,700.00	7,870.00	13,056.22	7,480.00	56.56	121.67	-84.01	-1,664.73	5,609.22	3,719.30	3,600.30	119.00	31.255	
11,800.00	7,870.00	13,156.22	7,480.00	57.88	121.75	-84.01	-1,764.72	5,608.88	3,719.30	3,597.97	121.34	30.653	
11,900.00	7,870.00	13,256.22	7,480.00	59.21	121.85	-84.01	-1,864.72	5,608.55	3,719.31	3,595.58	123.73	30.060	
12,000.00	7,870.00	13,356.22	7,480.00	60.57	121.96	-84.01	-1,964.72	5,608.21	3,719.31	3,593.13	126.18	29.477	
12,100.00	7,870.00	13,456.22	7,480.00	61.94	122.09	-84.01	-2,064.72	5,607.87	3,719.31	3,590.64	128.67	28.905	
12,200.00	7,870.00	13,556.22	7,480.00	63.33	122.24	-84.01	-2,164.72	5,607.54	3,719.32	3,588.10	131.21	28.345	
12,300.00	7,870.00	13,656.22	7,480.00	64.74	122.41	-84.01	-2,264.72	5,607.20	3,719.32	3,585.52	133.80	27.798	
12,400.00	7,870.00	13,756.22	7,480.00	66.16	122.60	-84.01	-2,364.72	5,606.86	3,719.32	3,582.90	136.43	27.262	
12,500.00	7,870.00	13,856.22	7,480.00	67.59	122.81	-84.01	-2,464.72	5,606.53	3,719.33	3,580.23	139.09	26.740	
12,600.00	7,870.00	13,956.22	7,480.00	69.04	123.04	-84.01	-2,564.72	5,606.19	3,719.33	3,577.53	141.79	26.230	
12,700.00	7,870.00	14,056.22	7,480.00	70.51	123.28	-84.01	-2,664.72	5,605.85	3,719.33	3,574.80	144.53	25.734	
12,800.00	7,870.00	14,156.22	7,480.00	71.98	123.56	-84.01	-2,764.72	5,605.52	3,719.33	3,572.03	147.30	25.250	
12,900.00	7,870.00	14,256.22	7,480.00	73.47	123.85	-84.01	-2,864.72	5,605.18	3,719.34	3,569.23	150.10	24.779	
13,000.00	7,870.00	14,356.22	7,480.00	74.96	124.16	-84.01	-2,964.72	5,604.85	3,719.34	3,566.41	152.93	24.320	
13,100.00	7,870.00	14,456.22	7,480.00	76.47	124.51	-84.01	-3,064.72	5,604.51	3,719.34	3,563.55	155.79	23.874	
13,200.00	7,870.00	14,556.22	7,480.00	77.99	124.87	-84.01	-3,164.72	5,604.17	3,719.35	3,560.67	158.68	23.440	
13,300.00	7,870.00	14,656.22	7,480.00	79.51	125.26	-84.01	-3,264.72	5,603.84	3,719.35	3,557.76	161.59	23.018	
13,400.00	7,870.00	14,756.22	7,480.00	81.05	125.68	-84.01	-3,364.72	5,603.50	3,719.35	3,554.83	164.52	22.607	
13,500.00	7,870.00	14,856.22	7,480.00	82.59	126.12	-84.01	-3,464.71	5,603.16	3,719.36	3,551.88	167.47	22.209	
13,600.00	7,870.00	14,956.22	7,480.00	84.14	126.59	-84.01	-3,564.71	5,602.83	3,719.36	3,548.91	170.45	21.821	
13,700.00	7,870.00	15,056.22	7,480.00	85.70	127.09	-84.01	-3,664.71	5,602.49	3,719.36	3,545.92	173.45	21.444	
13,800.00	7,870.00	15,156.22	7,480.00	87.26	127.62	-84.01	-3,764.71	5,602.15	3,719.37	3,542.90	176.46	21.077	
13,900.00	7,870.00	15,256.22	7,480.00	88.83	128.18	-84.01	-3,864.71	5,601.82	3,719.37	3,539.87	179.50	20.721	
14,000.00	7,870.00	15,356.22	7,480.00	90.41	128.76	-84.01	-3,964.71	5,601.48	3,719.37	3,536.82	182.55	20.375	
14,100.00	7,870.00	15,456.22	7,480.00	92.00	129.38	-84.01	-4,064.71	5,601.14	3,719.37	3,533.76	185.62	20.038	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	15,556.22	7,480.00	93.59	130.03	-84.01	-4,164.71	5,600.81	3,719.38	3,530.68	188.70	19.711	
14,300.00	7,870.00	15,656.22	7,480.00	95.18	130.71	-84.01	-4,264.71	5,600.47	3,719.38	3,527.58	191.80	19.392	
14,400.00	7,870.00	15,756.22	7,480.00	96.79	131.42	-84.01	-4,364.71	5,600.14	3,719.38	3,524.47	194.91	19.083	
14,500.00	7,870.00	15,856.22	7,480.00	98.39	132.15	-84.01	-4,464.71	5,599.80	3,719.39	3,521.35	198.03	18.781	
14,600.00	7,870.00	15,956.22	7,480.00	100.00	132.92	-84.01	-4,564.71	5,599.46	3,719.39	3,518.22	201.17	18.488	
14,700.00	7,870.00	16,056.22	7,480.00	101.62	133.72	-84.01	-4,664.71	5,599.13	3,719.39	3,515.07	204.32	18.203	
14,800.00	7,870.00	16,156.22	7,480.00	103.24	134.55	-84.01	-4,764.71	5,598.79	3,719.40	3,511.91	207.49	17.926	
14,900.00	7,870.00	16,256.22	7,480.00	104.87	135.41	-84.01	-4,864.71	5,598.45	3,719.40	3,508.74	210.66	17.656	
15,000.00	7,870.00	16,356.22	7,480.00	106.50	136.30	-84.01	-4,964.71	5,598.12	3,719.40	3,505.56	213.85	17.393	
15,100.00	7,870.00	16,456.22	7,480.00	108.13	137.22	-84.01	-5,064.71	5,597.78	3,719.40	3,502.36	217.04	17.137	
15,200.00	7,870.00	16,556.22	7,480.00	109.77	138.17	-84.01	-5,164.71	5,597.44	3,719.41	3,499.16	220.25	16.888	
15,300.00	7,870.00	16,656.22	7,480.00	111.41	139.14	-84.01	-5,264.70	5,597.11	3,719.41	3,495.95	223.46	16.645	
15,400.00	7,870.00	16,756.22	7,480.00	113.05	140.14	-84.01	-5,364.70	5,596.77	3,719.41	3,492.73	226.68	16.408	
15,500.00	7,870.00	16,856.22	7,480.00	114.70	141.17	-84.01	-5,464.70	5,596.43	3,719.42	3,489.50	229.91	16.177	
15,600.00	7,870.00	16,956.22	7,480.00	116.35	142.22	-84.01	-5,564.70	5,596.10	3,719.42	3,486.27	233.15	15.953	
15,700.00	7,870.00	17,056.22	7,480.00	118.00	143.30	-84.01	-5,664.70	5,595.76	3,719.42	3,483.02	236.40	15.733	
15,800.00	7,870.00	17,156.22	7,480.00	119.66	144.40	-84.01	-5,764.70	5,595.42	3,719.43	3,479.77	239.66	15.520	
15,900.00	7,870.00	17,256.22	7,480.00	121.32	145.53	-84.01	-5,864.70	5,595.09	3,719.43	3,476.51	242.92	15.311	
16,000.00	7,870.00	17,356.22	7,480.00	122.98	146.67	-84.01	-5,964.70	5,594.75	3,719.43	3,473.24	246.19	15.108	
16,100.00	7,870.00	17,456.22	7,480.00	124.65	147.84	-84.01	-6,064.70	5,594.42	3,719.44	3,469.97	249.47	14.909	
16,200.00	7,870.00	17,556.22	7,480.00	126.32	149.03	-84.01	-6,164.70	5,594.08	3,719.44	3,466.69	252.75	14.716	
16,300.00	7,870.00	17,656.22	7,480.00	127.99	150.24	-84.01	-6,264.70	5,593.74	3,719.44	3,463.40	256.04	14.527	
16,400.00	7,870.00	17,756.22	7,480.00	129.66	151.47	-84.01	-6,364.70	5,593.41	3,719.44	3,460.11	259.34	14.342	
16,500.00	7,870.00	17,856.22	7,480.00	131.33	152.71	-84.01	-6,464.70	5,593.07	3,719.45	3,456.81	262.64	14.162	
16,600.00	7,870.00	17,956.22	7,480.00	133.01	153.98	-84.01	-6,564.70	5,592.73	3,719.45	3,453.51	265.94	13.986	
16,700.00	7,870.00	18,056.22	7,480.00	134.69	155.26	-84.01	-6,664.70	5,592.40	3,719.45	3,450.20	269.26	13.814	
16,800.00	7,870.00	18,156.22	7,480.00	136.37	156.55	-84.01	-6,764.70	5,592.06	3,719.46	3,446.88	272.57	13.646	
16,900.00	7,870.00	18,256.22	7,480.00	138.06	157.86	-84.01	-6,864.70	5,591.72	3,719.46	3,443.56	275.90	13.481	
17,000.00	7,870.00	18,356.22	7,480.00	139.74	159.19	-84.01	-6,964.70	5,591.39	3,719.46	3,440.24	279.22	13.321	
17,100.00	7,870.00	18,456.22	7,480.00	141.43	160.53	-84.01	-7,064.69	5,591.05	3,719.47	3,436.91	282.56	13.164	
17,200.00	7,870.00	18,556.22	7,480.00	143.12	161.88	-84.01	-7,164.69	5,590.71	3,719.47	3,433.58	285.89	13.010	
17,300.00	7,870.00	18,656.22	7,480.00	144.81	163.25	-84.01	-7,264.69	5,590.38	3,719.47	3,430.24	289.23	12.860	
17,400.00	7,870.00	18,756.22	7,480.00	146.50	164.63	-84.01	-7,364.69	5,590.04	3,719.48	3,426.90	292.58	12.713	
17,500.00	7,870.00	18,856.22	7,480.00	148.19	166.02	-84.01	-7,464.69	5,589.71	3,719.48	3,423.55	295.93	12.569	
17,600.00	7,870.00	18,956.22	7,480.00	149.89	167.42	-84.01	-7,564.69	5,589.37	3,719.48	3,420.20	299.28	12.428	
17,700.00	7,870.00	19,056.22	7,480.00	151.59	168.84	-84.01	-7,664.69	5,589.03	3,719.48	3,416.85	302.64	12.290	
17,800.00	7,870.00	19,156.22	7,480.00	153.29	170.26	-84.01	-7,764.69	5,588.70	3,719.49	3,413.49	306.00	12.155	
17,900.00	7,870.00	19,256.22	7,480.00	154.99	171.69	-84.01	-7,864.69	5,588.36	3,719.49	3,410.13	309.36	12.023	
18,000.00	7,870.00	19,356.22	7,480.00	156.69	173.14	-84.01	-7,964.69	5,588.02	3,719.49	3,406.77	312.73	11.894	
18,100.00	7,870.00	19,456.22	7,480.00	158.39	174.59	-84.01	-8,064.69	5,587.69	3,719.50	3,403.40	316.10	11.767	
18,200.00	7,870.00	19,556.22	7,480.00	160.09	176.05	-84.01	-8,164.69	5,587.35	3,719.50	3,400.03	319.47	11.643	
18,300.00	7,870.00	19,656.22	7,480.00	161.80	177.52	-84.01	-8,264.69	5,587.01	3,719.50	3,396.66	322.85	11.521	
18,400.00	7,870.00	19,756.22	7,480.00	163.51	178.99	-84.01	-8,364.69	5,586.68	3,719.51	3,393.28	326.23	11.402	
18,400.00	7,870.00	19,756.22	7,480.00	163.51	178.99	-84.01	-8,364.69	5,586.68	3,719.51	3,393.28	326.23	11.402	
18,455.45	7,870.00	19,796.12	7,480.00	164.45	179.59	-84.01	-8,404.58	5,586.54	3,719.54	3,391.35	328.19	11.334	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	90.52	-1.09	119.84	119.85				
100.00	100.00	98.00	98.00	0.13	0.13	90.52	-1.09	119.84	119.85	119.58	0.27	450.269	CC, ES
200.00	200.00	194.26	194.24	0.49	0.47	90.27	-0.57	121.30	121.36	120.39	0.97	125.198	
300.00	300.00	290.23	290.09	0.85	0.82	89.54	1.02	125.79	126.04	124.37	1.68	75.137	
400.00	400.00	385.78	385.31	1.21	1.18	88.42	3.67	133.26	133.92	131.53	2.38	56.165	
500.00	500.00	480.70	479.58	1.57	1.55	87.07	7.36	143.64	145.01	141.92	3.09	46.947	
600.00	600.00	574.78	572.61	1.93	1.94	85.61	12.04	156.83	159.33	155.54	3.79	42.052	
700.00	700.00	667.84	664.12	2.29	2.36	84.16	17.67	172.70	176.88	172.39	4.48	39.453	
800.00	800.00	759.70	753.88	2.64	2.80	82.78	24.21	191.10	197.62	192.45	5.17	38.222	
900.00	900.00	850.20	841.65	3.00	3.27	81.52	31.58	211.88	221.51	215.66	5.85	37.867	
1,000.00	1,000.00	939.19	927.24	3.36	3.76	80.40	39.74	234.85	248.47	241.95	6.52	38.119	
1,100.00	1,100.00	1,026.55	1,010.48	3.72	4.28	79.40	48.60	259.81	278.43	271.26	7.17	38.824	
1,200.00	1,200.00	1,112.16	1,091.23	4.08	4.83	78.54	58.11	286.59	311.31	303.49	7.82	39.817	
1,300.00	1,300.00	1,195.92	1,169.38	4.44	5.41	77.78	68.19	314.98	347.00	338.55	8.45	41.054	
1,400.00	1,399.98	1,278.29	1,245.34	4.79	6.02	33.88	78.84	344.99	384.07	375.00	9.07	42.346	
1,500.00	1,499.84	1,359.77	1,319.56	5.15	6.67	33.23	90.10	376.69	421.12	411.44	9.68	43.521	
1,600.00	1,599.45	1,440.39	1,392.02	5.51	7.35	32.81	101.92	409.99	458.06	447.78	10.28	44.558	
1,700.00	1,698.70	1,520.16	1,462.71	5.87	8.05	32.57	114.29	444.83	494.87	483.99	10.88	45.471	
1,800.00	1,797.47	1,599.10	1,531.62	6.24	8.80	32.46	127.17	481.11	531.52	520.03	11.49	46.266	
1,900.00	1,895.62	1,677.22	1,598.74	6.63	9.58	32.46	140.54	518.76	567.99	555.89	12.10	46.938	
2,000.00	1,993.06	1,754.54	1,664.08	7.04	10.40	32.55	154.37	557.72	604.26	591.54	12.72	47.498	
2,100.00	2,089.64	1,831.08	1,727.64	7.48	11.25	32.70	168.64	597.90	640.33	626.98	13.36	47.946	
2,200.00	2,185.27	1,906.85	1,789.42	7.94	12.12	32.91	183.31	639.24	676.20	662.20	14.01	48.279	
2,300.00	2,279.82	1,981.87	1,849.42	8.45	13.04	33.15	198.38	681.67	711.87	697.19	14.68	48.484	
2,400.00	2,373.17	2,056.17	1,907.66	8.99	13.99	33.43	213.81	725.14	747.32	731.94	15.39	48.563	
2,500.00	2,465.21	2,129.75	1,964.14	9.58	14.96	33.74	229.59	769.58	782.58	766.45	16.13	48.516	
2,574.08	2,532.50	2,183.82	2,004.86	10.04	15.70	33.98	241.49	803.10	808.56	791.85	16.71	48.402	
2,600.00	2,555.89	2,200.00	2,016.92	10.21	15.92	34.15	245.10	813.27	817.72	800.84	16.87	48.467	
2,700.00	2,646.16	2,274.38	2,071.54	10.88	16.99	34.86	261.99	860.85	854.57	836.85	17.73	48.211	
2,800.00	2,736.44	2,360.78	2,133.89	11.57	18.26	35.60	282.00	917.20	893.19	874.40	18.79	47.529	
2,900.00	2,826.71	2,452.32	2,199.91	12.27	19.62	36.32	303.22	976.95	932.02	912.05	19.97	46.674	
3,000.00	2,916.98	2,543.86	2,265.94	13.00	20.99	36.98	324.43	1,036.71	970.95	949.78	21.17	45.858	
3,100.00	3,007.25	2,635.40	2,331.96	13.73	22.36	37.60	345.64	1,096.46	1,010.00	987.59	22.40	45.084	
3,200.00	3,097.52	2,726.94	2,397.98	14.48	23.74	38.16	366.86	1,156.21	1,049.13	1,025.48	23.65	44.353	
3,300.00	3,187.80	2,818.47	2,464.01	15.23	25.12	38.69	388.07	1,215.97	1,088.35	1,063.42	24.93	43.664	
3,400.00	3,278.07	2,910.01	2,530.03	15.99	26.51	39.18	409.29	1,275.72	1,127.63	1,101.42	26.22	43.015	
3,500.00	3,368.34	3,001.55	2,596.05	16.76	27.90	39.64	430.50	1,335.47	1,166.99	1,139.47	27.52	42.404	
3,600.00	3,458.61	3,093.09	2,662.08	17.54	29.29	40.07	451.72	1,395.23	1,206.40	1,177.56	28.84	41.830	
3,700.00	3,548.89	3,184.63	2,728.10	18.32	30.69	40.47	472.93	1,454.98	1,245.87	1,215.70	30.17	41.290	
3,800.00	3,639.16	3,276.17	2,794.12	19.10	32.08	40.85	494.15	1,514.73	1,285.39	1,253.87	31.52	40.783	
3,900.00	3,729.43	3,367.71	2,860.14	19.89	33.48	41.20	515.36	1,574.49	1,324.95	1,292.08	32.87	40.305	
4,000.00	3,819.70	3,459.25	2,926.17	20.69	34.88	41.54	536.58	1,634.24	1,364.55	1,330.31	34.24	39.855	
4,100.00	3,909.98	3,550.79	2,992.19	21.48	36.28	41.85	557.79	1,693.99	1,404.19	1,368.58	35.61	39.431	
4,200.00	4,000.25	3,642.33	3,058.21	22.28	37.69	42.15	579.01	1,753.74	1,443.86	1,406.87	36.99	39.031	
4,300.00	4,090.52	3,733.87	3,124.24	23.08	39.09	42.43	600.22	1,813.50	1,483.57	1,445.19	38.38	38.653	
4,400.00	4,180.79	3,825.41	3,190.26	23.88	40.50	42.70	621.43	1,873.25	1,523.30	1,483.52	39.78	38.296	
4,500.00	4,271.06	3,916.95	3,256.28	24.69	41.90	42.95	642.65	1,933.00	1,563.06	1,521.88	41.18	37.957	
4,600.00	4,361.34	4,008.49	3,322.31	25.49	43.31	43.19	663.86	1,992.76	1,602.85	1,560.26	42.59	37.637	
4,700.00	4,451.61	4,100.03	3,388.33	26.30	44.72	43.42	685.08	2,052.51	1,642.65	1,598.65	44.00	37.334	
4,800.00	4,541.88	4,208.43	3,454.35	27.11	46.38	43.64	706.29	2,112.26	1,682.48	1,636.93	45.55	36.938	
4,900.00	4,632.15	4,283.11	3,520.38	27.92	47.53	43.85	727.51	2,172.02	1,722.33	1,675.49	46.84	36.771	
5,000.00	4,722.43	4,374.65	3,586.40	28.74	48.94	44.05	748.72	2,231.77	1,762.20	1,713.93	48.27	36.511	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,466.19	3,652.42	29.55	50.35	44.24	769.94	2,291.52	1,802.08	1,752.39	49.70	36.263	
5,200.00	4,902.97	4,557.73	3,718.44	30.37	51.76	44.42	791.15	2,351.28	1,841.98	1,790.85	51.13	36.026	
5,300.00	4,993.24	4,649.27	3,784.47	31.18	53.17	44.60	812.37	2,411.03	1,881.90	1,829.33	52.57	35.801	
5,400.00	5,083.51	4,740.81	3,850.49	32.00	54.58	44.77	833.58	2,470.78	1,921.83	1,867.82	54.01	35.585	
5,500.00	5,173.79	4,832.35	3,916.51	32.82	55.99	44.93	854.79	2,530.53	1,961.77	1,906.32	55.45	35.380	
5,600.00	5,264.06	4,923.89	3,982.54	33.63	57.40	45.08	876.01	2,590.29	2,001.73	1,944.83	56.90	35.183	
5,700.00	5,354.33	5,015.43	4,048.56	34.45	58.81	45.23	897.22	2,650.04	2,041.69	1,983.35	58.34	34.994	
5,800.00	5,444.60	5,106.97	4,114.58	35.27	60.23	45.37	918.44	2,709.79	2,081.67	2,021.88	59.79	34.814	
5,900.00	5,534.88	5,201.49	4,180.61	36.09	61.68	45.51	939.65	2,769.55	2,121.66	2,060.39	61.27	34.627	
6,000.00	5,625.15	5,309.95	4,246.63	36.91	63.36	45.64	960.87	2,829.30	2,161.66	2,098.79	62.87	34.386	
6,100.00	5,715.42	5,381.59	4,312.65	37.74	64.46	45.77	982.08	2,889.05	2,201.67	2,137.51	64.16	34.315	
6,200.00	5,805.69	5,473.13	4,378.68	38.56	65.88	45.89	1,003.30	2,948.81	2,241.69	2,176.06	65.62	34.161	
6,300.00	5,895.96	5,564.67	4,444.70	39.38	67.29	46.01	1,024.51	3,008.56	2,281.71	2,214.63	67.08	34.014	
6,400.00	5,986.24	5,656.21	4,510.72	40.20	68.70	46.13	1,045.73	3,068.31	2,321.74	2,253.20	68.55	33.872	
6,500.00	6,076.51	5,747.75	4,576.74	41.03	70.12	46.24	1,066.94	3,128.07	2,361.78	2,291.77	70.01	33.735	
6,600.00	6,166.78	5,839.29	4,642.77	41.85	71.53	46.34	1,088.16	3,187.82	2,401.83	2,330.36	71.48	33.603	
6,700.00	6,257.05	5,930.83	4,708.79	42.67	72.94	46.45	1,109.37	3,247.57	2,441.89	2,368.94	72.94	33.476	
6,800.00	6,347.33	6,022.37	4,774.81	43.50	74.36	46.55	1,130.58	3,307.32	2,481.95	2,407.54	74.41	33.354	
6,900.00	6,437.60	6,113.91	4,840.84	44.32	75.77	46.64	1,151.80	3,367.08	2,522.02	2,446.13	75.88	33.235	
7,000.00	6,527.87	6,205.45	4,906.86	45.15	77.19	46.74	1,173.01	3,426.83	2,562.09	2,484.73	77.36	33.121	
7,100.00	6,618.14	6,303.01	4,972.88	45.98	78.69	46.83	1,194.23	3,486.58	2,602.17	2,523.29	78.88	32.989	
7,200.00	6,708.41	6,388.53	5,038.91	46.80	80.01	46.92	1,215.44	3,546.34	2,642.25	2,561.95	80.30	32.903	
7,300.00	6,798.69	6,480.07	5,104.93	47.63	81.43	47.00	1,236.66	3,606.09	2,682.34	2,600.56	81.78	32.800	
7,400.00	6,888.96	6,571.61	5,170.95	48.45	82.84	47.09	1,257.87	3,665.84	2,722.44	2,639.18	83.26	32.700	
7,500.00	6,979.23	6,663.15	5,236.98	49.28	84.26	47.17	1,279.09	3,725.60	2,762.53	2,677.80	84.73	32.603	
7,600.00	7,069.50	6,754.69	5,303.00	50.11	85.67	47.25	1,300.30	3,785.35	2,802.64	2,716.43	86.21	32.509	
7,692.09	7,152.63	6,838.98	5,363.80	50.87	86.98	47.32	1,319.84	3,840.37	2,839.57	2,752.00	87.57	32.425	
7,700.00	7,159.79	6,846.23	5,369.02	50.93	87.09	46.45	1,321.52	3,845.10	2,842.74	2,755.05	87.69	32.418	
7,750.00	7,205.70	6,907.92	5,402.09	51.32	88.04	39.52	1,332.14	3,875.03	2,862.62	2,774.15	88.47	32.357	
7,800.00	7,252.52	6,937.77	5,435.05	51.66	88.50	29.77	1,342.73	3,904.86	2,882.12	2,793.28	88.84	32.442	
7,850.00	7,299.89	6,982.97	5,467.65	51.96	89.20	17.35	1,353.21	3,934.36	2,901.12	2,811.93	89.19	32.527	
7,900.00	7,347.44	7,027.33	5,499.64	52.20	89.89	3.66	1,363.49	3,963.32	2,919.52	2,830.12	89.39	32.659	
7,950.00	7,394.83	7,070.51	5,530.78	52.39	90.56	-9.17	1,373.49	3,991.50	2,937.23	2,847.78	89.45	32.837	
8,000.00	7,441.68	7,112.17	5,560.84	52.53	91.20	-19.69	1,383.15	4,018.70	2,954.19	2,864.83	89.36	33.059	
8,050.00	7,487.65	7,152.02	5,589.57	52.62	91.82	-27.67	1,392.38	4,044.71	2,970.36	2,881.23	89.14	33.323	
8,100.00	7,532.37	7,189.73	5,616.78	52.67	92.40	-33.51	1,401.12	4,069.33	2,985.71	2,896.93	88.78	33.629	
8,150.00	7,575.52	7,225.03	5,642.24	52.67	92.94	-37.76	1,409.31	4,092.37	3,000.22	2,911.90	88.31	33.974	
8,200.00	7,616.76	7,257.65	5,665.76	52.63	93.45	-40.87	1,416.86	4,113.66	3,013.87	2,926.14	87.73	34.355	
8,250.00	7,655.77	7,287.33	5,687.17	52.55	93.91	-43.16	1,423.74	4,133.04	3,026.68	2,939.63	87.05	34.771	
8,300.00	7,692.27	7,313.86	5,706.30	52.44	94.32	-44.84	1,429.89	4,150.35	3,038.64	2,952.35	86.28	35.218	
8,350.00	7,725.97	7,337.02	5,723.01	52.29	94.68	-46.07	1,435.26	4,165.47	3,049.75	2,964.30	85.45	35.692	
8,400.00	7,756.62	7,356.65	5,737.16	52.12	94.98	-46.95	1,439.81	4,178.28	3,060.03	2,975.47	84.56	36.188	
8,450.00	7,783.98	7,372.59	5,748.66	51.92	95.23	-47.54	1,443.50	4,188.69	3,069.46	2,985.82	83.64	36.700	
8,500.00	7,807.85	7,384.72	5,757.41	51.70	95.41	-47.91	1,446.31	4,196.61	3,078.05	2,995.36	82.69	37.224	
8,550.00	7,828.05	7,407.04	5,763.35	51.45	95.76	-48.08	1,448.22	4,201.98	3,085.78	3,003.94	81.84	37.705	
8,600.00	7,844.41	7,402.77	5,766.43	51.20	95.69	-48.09	1,449.21	4,204.77	3,092.63	3,011.79	80.84	38.255	
8,650.00	7,856.82	7,402.49	5,766.63	50.93	95.69	-47.95	1,449.28	4,204.95	3,098.57	3,018.64	79.93	38.768	
8,700.00	7,865.18	7,406.21	5,763.95	50.65	95.75	-47.69	1,448.42	4,202.53	3,103.56	3,024.46	79.10	39.235	
8,750.00	7,869.43	7,386.10	5,758.41	50.36	95.43	-47.32	1,446.63	4,197.51	3,107.56	3,029.36	78.19	39.742	
8,776.25	7,870.00	7,380.50	5,754.36	50.21	95.35	-47.08	1,445.33	4,193.85	3,109.24	3,031.46	77.78	39.974	
8,800.00	7,870.00	7,374.94	5,750.36	50.08	95.26	-46.98	1,444.05	4,190.22	3,110.71	3,033.28	77.43	40.176	
8,900.00	7,870.00	7,351.54	5,733.48	49.53	94.90	-46.56	1,438.62	4,174.95	3,118.78	3,042.65	76.13	40.968	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,328.15	5,716.61	49.01	94.54	-46.14	1,433.20	4,159.68	3,129.85	3,054.70	75.15	41.647	
9,100.00	7,870.00	7,304.75	5,699.73	48.52	94.18	-45.72	1,427.78	4,144.41	3,143.89	3,069.38	74.50	42.199	
9,200.00	7,870.00	7,281.35	5,682.86	48.06	93.82	-45.30	1,422.36	4,129.13	3,160.85	3,086.68	74.17	42.614	
9,300.00	7,870.00	7,257.96	5,665.98	47.63	93.45	-44.88	1,416.94	4,113.86	3,180.70	3,106.55	74.16	42.891	
9,400.00	7,870.00	7,234.56	5,649.11	47.22	93.09	-44.47	1,411.51	4,098.59	3,203.38	3,128.95	74.44	43.036	
9,500.00	7,870.00	7,211.16	5,632.23	46.83	92.73	-44.05	1,406.09	4,083.32	3,228.83	3,153.85	74.98	43.060	
9,600.00	7,870.00	7,187.77	5,615.36	46.48	92.37	-43.63	1,400.67	4,068.04	3,256.99	3,181.21	75.78	42.980	
9,700.00	7,870.00	7,164.37	5,598.48	46.14	92.01	-43.21	1,395.25	4,052.77	3,287.78	3,210.99	76.79	42.815	
9,800.00	7,870.00	7,140.97	5,581.61	45.83	91.64	-42.80	1,389.82	4,037.50	3,321.13	3,243.14	77.98	42.587	
9,900.00	7,870.00	7,117.58	5,564.73	45.54	91.28	-42.38	1,384.40	4,022.23	3,356.96	3,277.63	79.34	42.314	
10,000.00	7,870.00	7,094.18	5,547.86	45.27	90.92	-41.96	1,378.98	4,006.95	3,395.20	3,314.39	80.81	42.014	
10,100.00	7,870.00	7,070.78	5,530.98	45.03	90.56	-41.55	1,373.56	3,991.68	3,435.77	3,353.39	82.39	41.704	
10,200.00	7,870.00	7,047.38	5,514.11	44.82	90.20	-41.13	1,368.14	3,976.41	3,478.59	3,394.55	84.03	41.396	
10,300.00	7,870.00	7,023.99	5,497.23	44.66	89.84	-40.72	1,362.71	3,961.14	3,523.56	3,437.83	85.73	41.101	
10,400.00	7,870.00	7,000.59	5,480.36	44.56	89.47	-40.31	1,357.29	3,945.86	3,570.62	3,483.17	87.45	40.828	
10,500.00	7,870.00	6,977.19	5,463.48	44.58	89.11	-39.90	1,351.87	3,930.59	3,619.68	3,530.49	89.19	40.583	
10,600.00	7,870.00	6,953.80	5,446.61	44.82	88.75	-39.48	1,346.45	3,915.32	3,670.66	3,579.73	90.93	40.369	
10,700.00	7,870.00	6,930.40	5,429.73	45.36	88.39	-39.07	1,341.02	3,900.05	3,723.48	3,630.83	92.65	40.189	
10,800.00	7,870.00	6,907.00	5,412.86	46.15	88.03	-38.66	1,335.60	3,884.78	3,778.06	3,683.72	94.34	40.046	
10,900.00	7,870.00	6,883.61	5,395.98	47.09	87.67	-38.26	1,330.18	3,869.50	3,834.33	3,738.33	96.00	39.940	
11,000.00	7,870.00	6,860.21	5,379.11	48.13	87.30	-37.85	1,324.76	3,854.23	3,892.22	3,794.60	97.62	39.871	
11,100.00	7,870.00	6,836.81	5,362.23	49.22	86.94	-37.44	1,319.33	3,838.96	3,951.65	3,852.46	99.19	39.838	
11,200.00	7,870.00	6,813.42	5,345.36	50.37	86.58	-37.04	1,313.91	3,823.69	4,012.56	3,911.85	100.72	39.841	
11,300.00	7,870.00	13,046.76	7,730.00	51.55	129.59	-88.05	-1,265.99	5,970.57	4,061.35	3,952.39	108.95	37.276	
11,400.00	7,870.00	13,146.76	7,730.00	52.76	129.61	-88.05	-1,365.99	5,970.23	4,061.35	3,950.32	111.02	36.581	
11,500.00	7,870.00	13,246.76	7,730.00	54.00	129.64	-88.05	-1,465.98	5,969.89	4,061.35	3,948.18	113.17	35.888	
11,600.00	7,870.00	13,346.76	7,730.00	55.27	129.69	-88.05	-1,565.98	5,969.56	4,061.35	3,945.98	115.37	35.201	
11,700.00	7,870.00	13,446.76	7,730.00	56.56	129.74	-88.05	-1,665.98	5,969.22	4,061.35	3,943.71	117.65	34.521	
11,800.00	7,870.00	13,546.76	7,730.00	57.88	129.82	-88.05	-1,765.98	5,968.88	4,061.35	3,941.37	119.98	33.850	
11,900.00	7,870.00	13,646.76	7,730.00	59.21	129.90	-88.05	-1,865.98	5,968.54	4,061.36	3,938.99	122.37	33.189	
12,000.00	7,870.00	13,746.76	7,730.00	60.57	130.01	-88.05	-1,965.98	5,968.20	4,061.36	3,936.54	124.81	32.539	
12,100.00	7,870.00	13,846.76	7,730.00	61.94	130.12	-88.05	-2,065.98	5,967.87	4,061.36	3,934.05	127.31	31.902	
12,200.00	7,870.00	13,946.76	7,730.00	63.33	130.26	-88.05	-2,165.98	5,967.53	4,061.36	3,931.51	129.85	31.278	
12,300.00	7,870.00	14,046.76	7,730.00	64.74	130.41	-88.05	-2,265.98	5,967.19	4,061.36	3,928.93	132.44	30.667	
12,400.00	7,870.00	14,146.76	7,730.00	66.16	130.57	-88.05	-2,365.98	5,966.85	4,061.37	3,926.30	135.06	30.070	
12,500.00	7,870.00	14,246.76	7,730.00	67.59	130.76	-88.05	-2,465.98	5,966.52	4,061.37	3,923.64	137.73	29.487	
12,600.00	7,870.00	14,346.76	7,730.00	69.04	130.96	-88.05	-2,565.98	5,966.18	4,061.37	3,920.93	140.44	28.919	
12,700.00	7,870.00	14,446.76	7,730.00	70.51	131.18	-88.05	-2,665.98	5,965.84	4,061.37	3,918.19	143.18	28.366	
12,800.00	7,870.00	14,546.76	7,730.00	71.98	131.41	-88.05	-2,765.98	5,965.50	4,061.37	3,915.42	145.95	27.826	
12,900.00	7,870.00	14,646.76	7,730.00	73.47	131.67	-88.05	-2,865.98	5,965.17	4,061.38	3,912.61	148.76	27.301	
13,000.00	7,870.00	14,746.76	7,730.00	74.96	131.95	-88.05	-2,965.98	5,964.83	4,061.38	3,909.78	151.60	26.790	
13,100.00	7,870.00	14,846.76	7,730.00	76.47	132.25	-88.05	-3,065.98	5,964.49	4,061.38	3,906.92	154.46	26.293	
13,200.00	7,870.00	14,946.76	7,730.00	77.99	132.57	-88.05	-3,165.98	5,964.15	4,061.38	3,904.03	157.36	25.810	
13,300.00	7,870.00	15,046.76	7,730.00	79.51	132.91	-88.05	-3,265.97	5,963.82	4,061.38	3,901.11	160.27	25.340	
13,400.00	7,870.00	15,146.76	7,730.00	81.05	133.28	-88.05	-3,365.97	5,963.48	4,061.39	3,898.17	163.21	24.884	
13,500.00	7,870.00	15,246.76	7,730.00	82.59	133.67	-88.05	-3,465.97	5,963.14	4,061.39	3,895.21	166.18	24.440	
13,600.00	7,870.00	15,346.76	7,730.00	84.14	134.08	-88.05	-3,565.97	5,962.80	4,061.39	3,892.22	169.16	24.009	
13,700.00	7,870.00	15,446.76	7,730.00	85.70	134.51	-88.05	-3,665.97	5,962.46	4,061.39	3,889.22	172.17	23.589	
13,800.00	7,870.00	15,546.76	7,730.00	87.26	134.97	-88.05	-3,765.97	5,962.13	4,061.39	3,886.20	175.20	23.182	
13,900.00	7,870.00	15,646.76	7,730.00	88.83	135.46	-88.05	-3,865.97	5,961.79	4,061.39	3,883.15	178.24	22.786	
14,000.00	7,870.00	15,746.76	7,730.00	90.41	135.97	-88.05	-3,965.97	5,961.45	4,061.40	3,880.09	181.30	22.401	
14,100.00	7,870.00	15,846.76	7,730.00	92.00	136.51	-88.05	-4,065.97	5,961.11	4,061.40	3,877.02	184.38	22.027	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	15,946.76	7,730.00	93.59	137.08	-88.05	-4,165.97	5,960.78	4,061.40	3,873.92	187.48	21.664	
14,300.00	7,870.00	16,046.76	7,730.00	95.18	137.67	-88.05	-4,265.97	5,960.44	4,061.40	3,870.82	190.59	21.310	
14,400.00	7,870.00	16,146.76	7,730.00	96.79	138.29	-88.05	-4,365.97	5,960.10	4,061.40	3,867.69	193.71	20.966	
14,500.00	7,870.00	16,246.76	7,730.00	98.39	138.94	-88.05	-4,465.97	5,959.76	4,061.41	3,864.56	196.85	20.632	
14,600.00	7,870.00	16,346.76	7,730.00	100.00	139.61	-88.05	-4,565.97	5,959.43	4,061.41	3,861.41	200.00	20.307	
14,700.00	7,870.00	16,446.76	7,730.00	101.62	140.32	-88.05	-4,665.97	5,959.09	4,061.41	3,858.25	203.16	19.991	
14,800.00	7,870.00	16,546.76	7,730.00	103.24	141.05	-88.05	-4,765.97	5,958.75	4,061.41	3,855.08	206.34	19.683	
14,900.00	7,870.00	16,646.76	7,730.00	104.87	141.81	-88.05	-4,865.97	5,958.41	4,061.41	3,851.89	209.52	19.384	
15,000.00	7,870.00	16,746.76	7,730.00	106.50	142.60	-88.05	-4,965.96	5,958.08	4,061.42	3,848.70	212.72	19.093	
15,100.00	7,870.00	16,846.76	7,730.00	108.13	143.41	-88.05	-5,065.96	5,957.74	4,061.42	3,845.49	215.93	18.809	
15,200.00	7,870.00	16,946.76	7,730.00	109.77	144.25	-88.05	-5,165.96	5,957.40	4,061.42	3,842.27	219.15	18.533	
15,300.00	7,870.00	17,046.76	7,730.00	111.41	145.12	-88.05	-5,265.96	5,957.06	4,061.42	3,839.05	222.37	18.264	
15,400.00	7,870.00	17,146.76	7,730.00	113.05	146.02	-88.05	-5,365.96	5,956.73	4,061.42	3,835.81	225.61	18.002	
15,500.00	7,870.00	17,246.76	7,730.00	114.70	146.94	-88.05	-5,465.96	5,956.39	4,061.43	3,832.57	228.85	17.747	
15,600.00	7,870.00	17,346.76	7,730.00	116.35	147.89	-88.05	-5,565.96	5,956.05	4,061.43	3,829.32	232.11	17.498	
15,700.00	7,870.00	17,446.76	7,730.00	118.00	148.86	-88.05	-5,665.96	5,955.71	4,061.43	3,826.06	235.37	17.256	
15,800.00	7,870.00	17,546.76	7,730.00	119.66	149.86	-88.05	-5,765.96	5,955.37	4,061.43	3,822.79	238.64	17.019	
15,900.00	7,870.00	17,646.76	7,730.00	121.32	150.88	-88.05	-5,865.96	5,955.04	4,061.43	3,819.52	241.91	16.789	
16,000.00	7,870.00	17,746.76	7,730.00	122.98	151.93	-88.05	-5,965.96	5,954.70	4,061.43	3,816.24	245.20	16.564	
16,100.00	7,870.00	17,846.76	7,730.00	124.65	153.00	-88.05	-6,065.96	5,954.36	4,061.44	3,812.95	248.49	16.345	
16,200.00	7,870.00	17,946.76	7,730.00	126.32	154.09	-88.05	-6,165.96	5,954.02	4,061.44	3,809.65	251.78	16.131	
16,300.00	7,870.00	18,046.76	7,730.00	127.99	155.20	-88.05	-6,265.96	5,953.69	4,061.44	3,806.35	255.09	15.922	
16,400.00	7,870.00	18,146.76	7,730.00	129.66	156.34	-88.05	-6,365.96	5,953.35	4,061.44	3,803.05	258.40	15.718	
16,500.00	7,870.00	18,246.76	7,730.00	131.33	157.49	-88.05	-6,465.96	5,953.01	4,061.44	3,799.73	261.71	15.519	
16,600.00	7,870.00	18,346.76	7,730.00	133.01	158.66	-88.05	-6,565.96	5,952.67	4,061.45	3,796.41	265.03	15.324	
16,700.00	7,870.00	18,446.76	7,730.00	134.69	159.86	-88.05	-6,665.96	5,952.34	4,061.45	3,793.09	268.36	15.134	
16,800.00	7,870.00	18,546.76	7,730.00	136.37	161.07	-88.05	-6,765.95	5,952.00	4,061.45	3,789.76	271.69	14.949	
16,900.00	7,870.00	18,646.76	7,730.00	138.06	162.29	-88.05	-6,865.95	5,951.66	4,061.45	3,786.43	275.03	14.767	
17,000.00	7,870.00	18,746.76	7,730.00	139.74	163.54	-88.05	-6,965.95	5,951.32	4,061.45	3,783.09	278.37	14.590	
17,100.00	7,870.00	18,846.76	7,730.00	141.43	164.80	-88.05	-7,065.95	5,950.99	4,061.46	3,779.74	281.71	14.417	
17,200.00	7,870.00	18,946.76	7,730.00	143.12	166.08	-88.05	-7,165.95	5,950.65	4,061.46	3,776.39	285.06	14.248	
17,300.00	7,870.00	19,046.76	7,730.00	144.81	167.37	-88.05	-7,265.95	5,950.31	4,061.46	3,773.04	288.42	14.082	
17,400.00	7,870.00	19,146.76	7,730.00	146.50	168.67	-88.05	-7,365.95	5,949.97	4,061.46	3,769.68	291.78	13.920	
17,500.00	7,870.00	19,246.76	7,730.00	148.19	170.00	-88.05	-7,465.95	5,949.64	4,061.46	3,766.32	295.14	13.761	
17,600.00	7,870.00	19,346.76	7,730.00	149.89	171.33	-88.05	-7,565.95	5,949.30	4,061.47	3,762.96	298.51	13.606	
17,700.00	7,870.00	19,446.76	7,730.00	151.59	172.67	-88.05	-7,665.95	5,948.96	4,061.47	3,759.59	301.88	13.454	
17,800.00	7,870.00	19,546.76	7,730.00	153.29	174.03	-88.05	-7,765.95	5,948.62	4,061.47	3,756.22	305.25	13.305	
17,900.00	7,870.00	19,646.76	7,730.00	154.99	175.40	-88.05	-7,865.95	5,948.28	4,061.47	3,752.84	308.63	13.160	
18,000.00	7,870.00	19,746.76	7,730.00	156.69	176.78	-88.05	-7,965.95	5,947.95	4,061.47	3,749.46	312.01	13.017	
18,100.00	7,870.00	19,846.76	7,730.00	158.39	178.18	-88.05	-8,065.95	5,947.61	4,061.47	3,746.08	315.40	12.877	
18,200.00	7,870.00	19,946.76	7,730.00	160.09	179.58	-88.05	-8,165.95	5,947.27	4,061.48	3,742.69	318.78	12.741	
18,300.00	7,870.00	20,046.76	7,730.00	161.80	180.99	-88.05	-8,265.95	5,946.93	4,061.48	3,739.30	322.17	12.606	
18,400.00	7,870.00	20,146.76	7,730.00	163.51	182.41	-88.05	-8,365.95	5,946.60	4,061.48	3,735.91	325.57	12.475	
18,400.01	7,870.00	20,146.78	7,730.00	163.51	182.42	-88.05	-8,365.96	5,946.60	4,061.48	3,735.91	325.57	12.475	
18,455.45	7,870.00	20,184.95	7,730.00	164.45	182.96	-88.05	-8,404.14	5,946.47	4,061.52	3,733.99	327.52	12.401	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.00	0.00	-10.36	10.36				
100.00	100.00	100.00	100.00	0.13	0.13	-90.00	0.00	-10.36	10.36	10.09	0.27	38.534	
200.00	200.00	200.00	200.00	0.49	0.49	-90.00	0.00	-10.36	10.36	9.37	0.99	10.509	
300.00	300.00	300.00	300.00	0.85	0.85	-90.00	0.00	-10.36	10.36	8.66	1.70	6.084	
400.00	400.00	400.00	400.00	1.21	1.21	-90.00	0.00	-10.36	10.36	7.94	2.42	4.282	
500.00	500.00	500.00	500.00	1.57	1.57	-90.00	0.00	-10.36	10.36	7.22	3.14	3.303	
600.00	600.00	600.00	600.00	1.93	1.93	-90.00	0.00	-10.36	10.36	6.51	3.85	2.688	
700.00	700.00	700.00	700.00	2.29	2.29	-90.00	0.00	-10.36	10.36	5.79	4.57	2.267	
800.00	800.00	800.00	800.00	2.64	2.64	-90.00	0.00	-10.36	10.36	5.07	5.29	1.959	
900.00	900.00	900.00	900.00	3.00	3.00	-90.00	0.00	-10.36	10.36	4.36	6.00	1.725	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-90.00	0.00	-10.36	10.36	3.64	6.72	1.541	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-90.00	0.00	-10.36	10.36	2.92	7.44	1.393	Level 3
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-90.00	0.00	-10.36	10.36	2.20	8.16	1.270	Level 3
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-90.00	0.00	-10.36	10.36	1.49	8.87	1.168	Level 2, CC, ES, SF
1,400.00	1,399.98	1,399.98	1,399.98	4.79	4.79	-139.24	0.00	-10.36	11.62	2.03	9.59	1.212	Level 2
1,500.00	1,499.84	1,500.26	1,500.24	5.15	5.15	-147.79	1.39	-9.28	14.53	4.24	10.29	1.411	Level 3
1,600.00	1,599.45	1,600.67	1,600.50	5.51	5.51	-152.50	5.55	-6.05	17.80	6.81	10.99	1.619	
1,700.00	1,698.70	1,701.19	1,700.63	5.87	5.87	-154.96	12.50	-0.66	21.28	9.60	11.68	1.821	
1,800.00	1,797.47	1,801.83	1,800.51	6.24	6.24	-156.05	22.23	6.89	24.90	12.54	12.37	2.014	
1,900.00	1,895.62	1,902.58	1,900.01	6.63	6.61	-156.27	34.74	16.59	28.65	15.60	13.05	2.196	
2,000.00	1,993.06	2,003.45	1,999.00	7.04	7.00	-155.92	50.03	28.46	32.51	18.78	13.73	2.368	
2,100.00	2,089.64	2,104.43	2,097.35	7.48	7.41	-155.19	68.08	42.46	36.48	22.06	14.42	2.530	
2,200.00	2,185.27	2,205.52	2,194.94	7.94	7.85	-154.18	88.89	58.60	40.57	25.45	15.12	2.683	
2,300.00	2,279.82	2,306.71	2,291.65	8.45	8.31	-152.98	112.42	76.87	44.78	28.93	15.85	2.825	
2,400.00	2,373.17	2,408.01	2,387.34	8.99	8.82	-151.65	138.67	97.23	49.11	32.50	16.61	2.957	
2,500.00	2,465.21	2,509.41	2,481.89	9.58	9.36	-150.23	167.61	119.68	53.59	36.17	17.42	3.077	
2,574.08	2,532.50	2,584.60	2,551.13	10.04	9.79	-149.14	190.76	137.65	56.99	38.94	18.05	3.157	
2,600.00	2,555.89	2,610.92	2,575.18	10.21	9.95	-148.71	199.21	144.20	58.10	39.82	18.28	3.178	
2,700.00	2,646.16	2,711.66	2,666.51	10.88	10.57	-146.17	232.80	170.27	61.02	41.70	19.32	3.159	
2,800.00	2,736.44	2,811.59	2,756.91	11.57	11.22	-143.63	266.44	196.36	63.72	43.25	20.48	3.112	
2,900.00	2,826.71	2,911.51	2,847.32	12.27	11.90	-141.30	300.07	222.45	66.54	44.84	21.70	3.067	
3,000.00	2,916.98	3,011.44	2,937.72	13.00	12.58	-139.17	333.70	248.55	69.46	46.49	22.97	3.024	
3,100.00	3,007.25	3,111.36	3,028.13	13.73	13.29	-137.21	367.33	274.64	72.47	48.18	24.30	2.983	
3,200.00	3,097.52	3,211.29	3,118.53	14.48	14.00	-135.41	400.96	300.73	75.56	49.90	25.66	2.945	
3,300.00	3,187.80	3,311.21	3,208.94	15.23	14.73	-133.75	434.59	326.83	78.71	51.66	27.06	2.909	
3,400.00	3,278.07	3,411.14	3,299.34	15.99	15.46	-132.22	468.23	352.92	81.93	53.44	28.49	2.876	
3,500.00	3,368.34	3,511.06	3,389.75	16.76	16.20	-130.81	501.86	379.02	85.20	55.26	29.94	2.845	
3,600.00	3,458.61	3,610.99	3,480.15	17.54	16.95	-129.50	535.49	405.11	88.51	57.09	31.42	2.817	
3,700.00	3,548.89	3,710.91	3,570.56	18.32	17.71	-128.29	569.12	431.20	91.87	58.96	32.92	2.791	
3,800.00	3,639.16	3,810.84	3,660.96	19.10	18.47	-127.16	602.75	457.30	95.27	60.84	34.43	2.767	
3,900.00	3,729.43	3,910.77	3,751.37	19.89	19.23	-126.11	636.39	483.39	98.71	62.74	35.96	2.745	
4,000.00	3,819.70	4,010.69	3,841.77	20.69	20.00	-125.13	670.02	509.48	102.17	64.66	37.51	2.724	
4,100.00	3,909.98	4,110.62	3,932.18	21.48	20.77	-124.22	703.65	535.58	105.66	66.60	39.06	2.705	
4,200.00	4,000.25	4,210.54	4,022.58	22.28	21.55	-123.36	737.28	561.67	109.18	68.56	40.62	2.688	
4,300.00	4,090.52	4,310.47	4,112.99	23.08	22.33	-122.56	770.91	587.77	112.72	70.52	42.19	2.671	
4,400.00	4,180.79	4,410.39	4,203.39	23.88	23.11	-121.81	804.54	613.86	116.28	72.51	43.77	2.656	
4,500.00	4,271.06	4,510.32	4,293.80	24.69	23.89	-121.10	838.18	639.95	119.85	74.50	45.36	2.643	
4,600.00	4,361.34	4,610.24	4,384.21	25.49	24.68	-120.43	871.81	666.05	123.45	76.51	46.95	2.630	
4,700.00	4,451.61	4,710.17	4,474.61	26.30	25.47	-119.80	905.44	692.14	127.06	78.52	48.54	2.618	
4,800.00	4,541.88	4,810.09	4,565.02	27.11	26.26	-119.21	939.07	718.23	130.69	80.55	50.14	2.606	
4,900.00	4,632.15	4,910.02	4,655.42	27.92	27.05	-118.65	972.70	744.33	134.33	82.58	51.74	2.596	
5,000.00	4,722.43	5,009.94	4,745.83	28.74	27.84	-118.12	1,006.33	770.42	137.98	84.63	53.35	2.586	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,109.87	4,836.23	29.55	28.63	-117.61	1,039.97	796.52	141.64	86.68	54.96	2.577	
5,200.00	4,902.97	5,209.79	4,926.64	30.37	29.43	-117.13	1,073.60	822.61	145.32	88.74	56.57	2.569	
5,300.00	4,993.24	5,309.72	5,017.04	31.18	30.22	-116.68	1,107.23	848.70	149.00	90.81	58.19	2.561	
5,400.00	5,083.51	5,409.65	5,107.45	32.00	31.02	-116.24	1,140.86	874.80	152.69	92.89	59.80	2.553	
5,500.00	5,173.79	5,509.57	5,197.85	32.82	31.82	-115.83	1,174.49	900.89	156.39	94.97	61.42	2.546	
5,600.00	5,264.06	5,609.50	5,288.26	33.63	32.62	-115.44	1,208.12	926.98	160.10	97.06	63.04	2.540	
5,700.00	5,354.33	5,709.42	5,378.66	34.45	33.42	-115.06	1,241.76	953.08	163.81	99.15	64.66	2.533	
5,800.00	5,444.60	5,809.35	5,469.07	35.27	34.22	-114.70	1,275.39	979.17	167.54	101.25	66.29	2.527	
5,900.00	5,534.88	5,909.27	5,559.47	36.09	35.02	-114.36	1,309.02	1,005.27	171.27	103.36	67.91	2.522	
6,000.00	5,625.15	6,009.20	5,649.88	36.91	35.82	-114.03	1,342.65	1,031.36	175.00	105.46	69.54	2.517	
6,100.00	5,715.42	6,109.12	5,740.28	37.74	36.62	-113.71	1,376.28	1,057.45	178.74	107.58	71.16	2.512	
6,200.00	5,805.69	6,209.05	5,830.69	38.56	37.43	-113.41	1,409.92	1,083.55	182.48	109.69	72.79	2.507	
6,300.00	5,895.96	6,308.97	5,921.09	39.38	38.23	-113.12	1,443.55	1,109.64	186.23	111.82	74.42	2.503	
6,400.00	5,986.24	6,408.90	6,011.50	40.20	39.03	-112.84	1,477.18	1,135.74	189.99	113.94	76.05	2.498	
6,500.00	6,076.51	6,508.82	6,101.90	41.03	39.84	-112.57	1,510.81	1,161.83	193.75	116.07	77.68	2.494	
6,600.00	6,166.78	6,608.75	6,192.31	41.85	40.64	-112.31	1,544.44	1,187.92	197.51	118.20	79.31	2.490	
6,700.00	6,257.05	6,708.67	6,282.71	42.67	41.45	-112.07	1,578.07	1,214.02	201.28	120.34	80.94	2.487	
6,800.00	6,347.33	6,808.60	6,373.12	43.50	42.25	-111.83	1,611.71	1,240.11	205.05	122.48	82.57	2.483	
6,900.00	6,437.60	6,908.52	6,463.52	44.32	43.06	-111.60	1,645.34	1,266.20	208.82	124.62	84.20	2.480	
7,000.00	6,527.87	7,008.45	6,553.93	45.15	43.87	-111.37	1,678.97	1,292.30	212.60	126.76	85.83	2.477	
7,100.00	6,618.14	7,108.38	6,644.33	45.98	44.67	-111.16	1,712.60	1,318.39	216.38	128.91	87.47	2.474	
7,200.00	6,708.41	7,208.30	6,734.74	46.80	45.48	-110.95	1,746.23	1,344.49	220.16	131.06	89.10	2.471	
7,300.00	6,798.69	7,308.23	6,825.14	47.63	46.29	-110.75	1,779.86	1,370.58	223.95	133.21	90.73	2.468	
7,400.00	6,888.96	7,412.94	6,920.11	48.45	47.12	-110.72	1,814.40	1,397.99	227.48	135.14	92.34	2.464	
7,500.00	6,979.23	7,530.06	7,030.43	49.28	47.88	-114.63	1,836.51	1,429.77	225.33	133.20	92.12	2.446	
7,600.00	7,069.50	7,636.96	7,133.02	50.11	48.33	-123.35	1,835.94	1,459.25	218.95	129.75	89.21	2.454	
7,676.63	7,138.68	7,708.74	7,201.08	50.74	48.49	-132.12	1,824.42	1,478.77	216.28	131.03	85.25	2.537	
7,692.09	7,152.63	7,722.07	7,213.54	50.87	48.51	-133.98	1,821.31	1,482.34	216.43	132.15	84.28	2.568	
7,700.00	7,159.79	7,728.78	7,219.78	50.93	48.52	-136.17	1,819.64	1,484.12	216.62	132.86	83.76	2.586	
7,750.00	7,205.70	7,770.25	7,257.93	51.32	48.55	-151.31	1,807.58	1,495.04	219.73	139.26	80.47	2.731	
7,800.00	7,252.52	7,810.34	7,293.91	51.66	48.56	-168.92	1,793.22	1,505.34	225.81	148.58	77.23	2.924	
7,850.00	7,299.89	7,849.26	7,327.83	51.96	48.54	171.29	1,776.82	1,515.03	234.36	160.20	74.16	3.160	
7,900.00	7,347.44	7,887.16	7,359.77	52.20	48.49	150.79	1,758.58	1,524.15	244.81	173.53	71.28	3.434	
7,950.00	7,394.83	7,924.19	7,389.79	52.39	48.43	131.75	1,738.68	1,532.71	256.65	188.01	68.63	3.739	
8,000.00	7,441.68	7,960.46	7,417.94	52.53	48.34	115.65	1,717.27	1,540.72	269.38	203.19	66.20	4.069	
8,050.00	7,487.65	7,996.07	7,444.27	52.62	48.25	102.70	1,694.48	1,548.21	282.60	218.65	63.96	4.419	
8,100.00	7,532.37	8,031.12	7,468.79	52.67	48.13	92.45	1,670.45	1,555.18	295.96	234.06	61.90	4.781	
8,150.00	7,575.52	8,065.67	7,491.55	52.67	48.01	84.30	1,645.27	1,561.63	309.16	249.13	60.03	5.150	
8,200.00	7,616.76	8,100.00	7,512.67	52.63	47.87	77.76	1,618.88	1,567.61	321.97	263.61	58.36	5.517	
8,250.00	7,655.77	8,133.55	7,531.81	52.55	47.72	72.48	1,591.88	1,573.02	334.19	277.28	56.91	5.872	
8,300.00	7,692.27	8,166.97	7,549.34	52.44	47.56	68.16	1,563.85	1,577.96	345.66	289.97	55.69	6.207	
8,350.00	7,725.97	8,200.00	7,565.09	52.29	47.40	64.62	1,535.17	1,582.39	356.26	301.53	54.73	6.509	
8,400.00	7,756.62	8,233.03	7,579.23	52.12	47.23	61.72	1,505.58	1,586.36	365.87	311.83	54.05	6.769	
8,450.00	7,783.98	8,265.74	7,591.59	51.92	47.05	59.35	1,475.51	1,589.81	374.42	320.75	53.67	6.977	
8,500.00	7,807.85	8,300.00	7,602.75	51.70	46.86	57.42	1,443.27	1,592.90	381.82	328.34	53.48	7.140	
8,550.00	7,828.05	8,330.68	7,611.16	51.45	46.69	55.92	1,413.86	1,595.22	388.01	334.17	53.84	7.207	
8,600.00	7,844.41	8,362.97	7,618.36	51.20	46.50	54.76	1,382.44	1,597.18	392.96	338.57	54.38	7.226	
8,650.00	7,856.82	8,400.00	7,624.51	50.93	46.28	53.90	1,345.97	1,598.83	396.67	341.90	54.76	7.244	
8,700.00	7,865.18	8,427.33	7,627.59	50.65	46.12	53.39	1,318.83	1,599.62	398.98	342.63	56.35	7.081	
8,750.00	7,869.43	8,459.45	7,629.61	50.36	45.92	53.15	1,286.78	1,600.09	400.01	342.31	57.71	6.932	
8,776.25	7,870.00	8,476.31	7,629.98	50.21	45.82	53.13	1,269.92	1,600.14	400.03	341.52	58.51	6.837	
8,787.72	7,870.00	8,485.17	7,630.00	50.15	45.77	53.13	1,261.07	1,600.12	400.00	341.30	58.70	6.815	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	8,502.55	7,630.00	50.08	45.67	53.13	1,248.79	1,600.08	400.00	341.45	58.55	6.832	
8,900.00	7,870.00	8,602.55	7,630.00	49.53	45.09	53.13	1,148.79	1,599.74	400.00	342.39	57.61	6.943	
9,000.00	7,870.00	8,702.55	7,630.00	49.01	44.55	53.13	1,048.79	1,599.40	400.00	343.18	56.82	7.040	
9,100.00	7,870.00	8,802.55	7,630.00	48.52	44.04	53.13	948.79	1,599.06	400.00	343.82	56.17	7.121	
9,200.00	7,870.00	8,902.55	7,630.00	48.06	43.56	53.13	848.79	1,598.73	400.00	344.32	55.68	7.184	
9,300.00	7,870.00	9,002.55	7,630.00	47.63	43.11	53.13	748.79	1,598.39	400.00	344.65	55.34	7.228	
9,400.00	7,870.00	9,102.55	7,630.00	47.22	42.69	53.13	648.79	1,598.05	400.00	344.83	55.16	7.251	
9,500.00	7,870.00	9,202.55	7,630.00	46.83	42.30	53.13	548.79	1,597.71	399.99	344.85	55.15	7.253	
9,600.00	7,870.00	9,302.55	7,630.00	46.48	41.93	53.13	448.79	1,597.37	399.99	344.71	55.29	7.235	
9,700.00	7,870.00	9,402.55	7,630.00	46.14	41.58	53.13	348.79	1,597.03	399.99	344.40	55.59	7.195	
9,800.00	7,870.00	9,502.55	7,630.00	45.83	41.26	53.13	248.79	1,596.70	399.99	343.94	56.05	7.136	
9,900.00	7,870.00	9,602.55	7,630.00	45.54	40.95	53.13	148.79	1,596.36	399.99	343.33	56.66	7.059	
10,000.00	7,870.00	9,702.55	7,630.00	45.27	40.67	53.13	48.79	1,596.02	399.99	342.57	57.42	6.966	
10,100.00	7,870.00	9,802.55	7,630.00	45.03	40.41	53.13	-51.21	1,595.68	399.99	341.66	58.32	6.858	
10,200.00	7,870.00	9,902.55	7,630.00	44.82	40.17	53.13	-151.21	1,595.34	399.99	340.62	59.36	6.738	
10,300.00	7,870.00	10,002.55	7,630.00	44.66	39.95	53.13	-251.21	1,595.01	399.99	339.46	60.53	6.608	
10,400.00	7,870.00	10,102.55	7,630.00	44.56	40.07	53.13	-351.20	1,594.67	399.98	338.17	61.82	6.470	
10,500.00	7,870.00	10,202.55	7,630.00	44.58	40.97	53.13	-451.20	1,594.33	399.98	336.76	63.22	6.327	
10,600.00	7,870.00	10,302.55	7,630.00	44.82	41.97	53.13	-551.20	1,593.99	399.98	335.25	64.73	6.179	
10,700.00	7,870.00	10,402.55	7,630.00	45.36	43.01	53.13	-651.20	1,593.65	399.98	333.64	66.34	6.029	
10,800.00	7,870.00	10,502.55	7,630.00	46.15	44.09	53.13	-751.20	1,593.32	399.98	331.94	68.04	5.878	
10,900.00	7,870.00	10,602.55	7,630.00	47.09	45.20	53.13	-851.20	1,592.98	399.98	330.15	69.83	5.728	
11,000.00	7,870.00	10,702.55	7,630.00	48.13	46.35	53.13	-951.20	1,592.64	399.98	328.28	71.70	5.579	
11,100.00	7,870.00	10,802.55	7,630.00	49.22	47.53	53.13	-1,051.20	1,592.30	399.98	326.34	73.64	5.432	
11,200.00	7,870.00	10,902.55	7,630.00	50.37	48.73	53.13	-1,151.20	1,591.96	399.98	324.33	75.64	5.288	
11,300.00	7,870.00	11,002.55	7,630.00	51.55	49.97	53.13	-1,251.20	1,591.62	399.97	322.26	77.71	5.147	
11,400.00	7,870.00	11,102.55	7,630.00	52.76	51.23	53.13	-1,351.20	1,591.29	399.97	320.13	79.84	5.010	
11,500.00	7,870.00	11,202.55	7,630.00	54.00	52.51	53.13	-1,451.20	1,590.95	399.97	317.95	82.02	4.876	
11,600.00	7,870.00	11,302.55	7,630.00	55.27	53.82	53.13	-1,551.20	1,590.61	399.97	315.72	84.25	4.747	
11,700.00	7,870.00	11,402.55	7,630.00	56.56	55.15	53.13	-1,651.20	1,590.27	399.97	313.45	86.52	4.623	
11,800.00	7,870.00	11,502.55	7,630.00	57.88	56.50	53.13	-1,751.20	1,589.93	399.97	311.13	88.84	4.502	
11,900.00	7,870.00	11,602.55	7,630.00	59.21	57.87	53.13	-1,851.20	1,589.60	399.97	308.77	91.20	4.386	
12,000.00	7,870.00	11,702.55	7,630.00	60.57	59.26	53.13	-1,951.20	1,589.26	399.97	306.38	93.59	4.274	
12,100.00	7,870.00	11,802.55	7,630.00	61.94	60.66	53.13	-2,051.20	1,588.92	399.97	303.96	96.01	4.166	
12,200.00	7,870.00	11,897.45	7,630.00	63.33	62.01	53.13	-2,151.19	1,588.58	399.96	301.57	98.40	4.065	
12,300.00	7,870.00	12,002.55	7,630.00	64.74	63.51	53.13	-2,251.19	1,588.24	399.96	299.02	100.94	3.962	
12,400.00	7,870.00	12,102.55	7,630.00	66.16	64.96	53.13	-2,351.19	1,587.90	399.96	296.51	103.45	3.866	
12,500.00	7,870.00	12,202.55	7,630.00	67.59	66.43	53.13	-2,451.19	1,587.57	399.96	293.98	105.98	3.774	
12,600.00	7,870.00	12,302.55	7,630.00	69.04	67.90	53.13	-2,551.19	1,587.23	399.96	291.42	108.54	3.685	
12,700.00	7,870.00	12,402.55	7,630.00	70.51	69.39	53.13	-2,651.19	1,586.89	399.96	288.84	111.12	3.599	
12,800.00	7,870.00	12,497.45	7,630.00	71.98	70.81	53.13	-2,751.19	1,586.55	399.96	286.31	113.64	3.519	
12,900.00	7,870.00	12,602.55	7,630.00	73.47	72.40	53.13	-2,851.19	1,586.21	399.96	283.63	116.33	3.438	
13,000.00	7,870.00	12,702.55	7,630.00	74.96	73.92	53.13	-2,951.19	1,585.88	399.96	281.00	118.96	3.362	
13,100.00	7,870.00	12,802.55	7,630.00	76.47	75.45	53.13	-3,051.19	1,585.54	399.95	278.35	121.60	3.289	
13,200.00	7,870.00	12,897.45	7,630.00	77.99	76.91	53.13	-3,151.19	1,585.20	399.95	275.76	124.20	3.220	
13,300.00	7,870.00	13,002.55	7,630.00	79.51	78.53	53.13	-3,251.19	1,584.86	399.95	273.01	126.94	3.151	
13,400.00	7,870.00	13,097.45	7,630.00	81.05	80.01	53.12	-3,351.19	1,584.52	399.95	270.39	129.56	3.087	
13,500.00	7,870.00	13,202.55	7,630.00	82.59	81.65	53.12	-3,451.19	1,584.19	399.95	267.62	132.33	3.022	
13,600.00	7,870.00	13,302.55	7,630.00	84.14	83.22	53.12	-3,551.19	1,583.85	399.95	264.90	135.05	2.962	
13,700.00	7,870.00	13,402.55	7,630.00	85.70	84.80	53.12	-3,651.19	1,583.51	399.95	262.18	137.77	2.903	
13,800.00	7,870.00	13,497.45	7,630.00	87.26	86.30	53.12	-3,751.19	1,583.17	399.95	259.51	140.44	2.848	
13,900.00	7,870.00	13,602.55	7,630.00	88.83	87.98	53.12	-3,851.18	1,582.83	399.95	256.69	143.25	2.792	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	13,702.55	7,630.00	90.41	89.57	53.12	-3,951.18	1,582.49	399.94	253.94	146.01	2.739	
14,100.00	7,870.00	13,802.55	7,630.00	92.00	91.17	53.12	-4,051.18	1,582.16	399.94	251.18	148.77	2.688	
14,200.00	7,870.00	13,902.55	7,630.00	93.59	92.78	53.12	-4,151.18	1,581.82	399.94	248.40	151.54	2.639	
14,300.00	7,870.00	14,002.55	7,630.00	95.18	94.40	53.12	-4,251.18	1,581.48	399.94	245.62	154.32	2.592	
14,400.00	7,870.00	14,102.55	7,630.00	96.79	96.01	53.12	-4,351.18	1,581.14	399.94	242.84	157.10	2.546	
14,500.00	7,870.00	14,202.55	7,630.00	98.39	97.64	53.12	-4,451.18	1,580.80	399.94	240.04	159.90	2.501	
14,600.00	7,870.00	14,302.55	7,630.00	100.00	99.26	53.12	-4,551.18	1,580.47	399.94	237.24	162.70	2.458	
14,700.00	7,870.00	14,402.55	7,630.00	101.62	100.90	53.12	-4,651.18	1,580.13	399.94	234.44	165.50	2.417	
14,800.00	7,870.00	14,497.45	7,630.00	103.24	102.45	53.12	-4,751.18	1,579.79	399.94	231.70	168.24	2.377	
14,900.00	7,870.00	14,602.55	7,630.00	104.87	104.17	53.12	-4,851.18	1,579.45	399.93	228.81	171.13	2.337	
15,000.00	7,870.00	14,702.55	7,630.00	106.50	105.81	53.12	-4,951.18	1,579.11	399.93	225.98	173.95	2.299	
15,100.00	7,870.00	14,802.55	7,630.00	108.13	107.46	53.12	-5,051.18	1,578.78	399.93	223.15	176.78	2.262	
15,200.00	7,870.00	14,902.55	7,630.00	109.77	109.11	53.12	-5,151.18	1,578.44	399.93	220.32	179.61	2.227	
15,300.00	7,870.00	15,002.55	7,630.00	111.41	110.77	53.12	-5,251.18	1,578.10	399.93	217.48	182.45	2.192	
15,400.00	7,870.00	15,097.45	7,630.00	113.05	112.34	53.12	-5,351.18	1,577.76	399.93	214.71	185.22	2.159	
15,500.00	7,870.00	15,202.55	7,630.00	114.70	114.08	53.12	-5,451.18	1,577.42	399.93	211.79	188.14	2.126	
15,600.00	7,870.00	15,302.55	7,630.00	116.35	115.75	53.12	-5,551.18	1,577.08	399.93	208.94	190.99	2.094	
15,700.00	7,870.00	15,402.55	7,630.00	118.00	117.41	53.12	-5,651.17	1,576.75	399.93	206.09	193.84	2.063	
15,800.00	7,870.00	15,502.55	7,630.00	119.66	119.08	53.12	-5,751.17	1,576.41	399.92	203.23	196.70	2.033	
15,900.00	7,870.00	15,602.55	7,630.00	121.32	120.75	53.12	-5,851.17	1,576.07	399.92	200.37	199.56	2.004	
16,000.00	7,870.00	15,702.55	7,630.00	122.98	122.43	53.12	-5,951.17	1,575.73	399.92	197.50	202.42	1.976	
16,100.00	7,870.00	15,802.55	7,630.00	124.65	124.10	53.12	-6,051.17	1,575.39	399.92	194.63	205.29	1.948	
16,200.00	7,870.00	15,902.55	7,630.00	126.32	125.78	53.12	-6,151.17	1,575.06	399.92	191.76	208.16	1.921	
16,300.00	7,870.00	16,002.55	7,630.00	127.99	127.46	53.12	-6,251.17	1,574.72	399.92	188.88	211.03	1.895	
16,400.00	7,870.00	16,102.55	7,630.00	129.66	129.15	53.12	-6,351.17	1,574.38	399.92	186.01	213.91	1.870	
16,500.00	7,870.00	16,202.55	7,630.00	131.33	130.83	53.12	-6,451.17	1,574.04	399.92	183.13	216.79	1.845	
16,600.00	7,870.00	16,302.55	7,630.00	133.01	132.52	53.12	-6,551.17	1,573.70	399.92	180.24	219.67	1.821	
16,700.00	7,870.00	16,402.55	7,630.00	134.69	134.21	53.12	-6,651.17	1,573.36	399.91	177.36	222.56	1.797	
16,800.00	7,870.00	16,502.55	7,630.00	136.37	135.90	53.12	-6,751.17	1,573.03	399.91	174.47	225.44	1.774	
16,900.00	7,870.00	16,602.55	7,630.00	138.06	137.59	53.12	-6,851.17	1,572.69	399.91	171.58	228.33	1.751	
17,000.00	7,870.00	16,702.55	7,630.00	139.74	139.29	53.12	-6,951.17	1,572.35	399.91	168.69	231.22	1.730	
17,100.00	7,870.00	16,797.45	7,630.00	141.43	140.90	53.12	-7,051.17	1,572.01	399.91	165.87	234.04	1.709	
17,200.00	7,870.00	16,902.55	7,630.00	143.12	142.68	53.12	-7,151.17	1,571.67	399.91	162.90	237.01	1.687	
17,300.00	7,870.00	17,002.55	7,630.00	144.81	144.38	53.12	-7,251.17	1,571.34	399.91	160.00	239.91	1.667	
17,400.00	7,870.00	17,102.55	7,630.00	146.50	146.08	53.12	-7,351.17	1,571.00	399.91	157.10	242.81	1.647	
17,500.00	7,870.00	17,202.55	7,630.00	148.19	147.78	53.12	-7,451.16	1,570.66	399.91	154.19	245.71	1.628	
17,600.00	7,870.00	17,302.55	7,630.00	149.89	149.49	53.12	-7,551.16	1,570.32	399.90	151.29	248.62	1.609	
17,700.00	7,870.00	17,402.55	7,630.00	151.59	151.19	53.12	-7,651.16	1,569.98	399.90	148.38	251.52	1.590	
17,800.00	7,870.00	17,502.55	7,630.00	153.29	152.90	53.12	-7,751.16	1,569.65	399.90	145.47	254.43	1.572	
17,900.00	7,870.00	17,602.55	7,630.00	154.99	154.61	53.12	-7,851.16	1,569.31	399.90	142.56	257.34	1.554	
18,000.00	7,870.00	17,702.55	7,630.00	156.69	156.32	53.12	-7,951.16	1,568.97	399.90	139.65	260.25	1.537	
18,100.00	7,870.00	17,802.55	7,630.00	158.39	158.03	53.12	-8,051.16	1,568.63	399.90	136.74	263.16	1.520	
18,200.00	7,870.00	17,902.55	7,630.00	160.09	159.74	53.12	-8,151.16	1,568.29	399.90	133.83	266.07	1.503	
18,300.00	7,870.00	18,002.55	7,630.00	161.80	161.45	53.12	-8,251.16	1,567.95	399.90	130.91	268.99	1.487	Level 3
18,400.00	7,870.00	18,097.45	7,630.00	163.51	163.08	53.12	-8,351.16	1,567.62	399.90	128.07	271.83	1.471	Level 3
18,455.45	7,870.00	18,152.90	7,630.00	164.45	164.03	53.12	-8,406.61	1,567.43	399.90	126.45	273.45	1.462	Level 3

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16,236.00	7,569.74	0.00	158.98	49.53	1,787.46	2,095.19	8,199.12				
100.00	100.00	16,236.00	7,569.74	0.13	158.98	49.53	1,787.46	2,095.19	8,105.00	8,025.13	79.87	101.477	
200.00	200.00	16,236.00	7,569.74	0.49	158.98	49.53	1,787.46	2,095.19	8,011.02	7,930.97	80.05	100.080	
300.00	300.00	16,236.00	7,569.74	0.85	158.98	49.53	1,787.46	2,095.19	7,917.19	7,836.95	80.24	98.670	
400.00	400.00	16,236.00	7,569.74	1.21	158.98	49.53	1,787.46	2,095.19	7,823.51	7,743.06	80.45	97.247	
500.00	500.00	16,236.00	7,569.74	1.57	158.98	49.53	1,787.46	2,095.19	7,729.99	7,649.31	80.68	95.813	
600.00	600.00	16,236.00	7,569.74	1.93	158.98	49.53	1,787.46	2,095.19	7,636.64	7,555.71	80.92	94.367	
700.00	700.00	16,236.00	7,569.74	2.29	158.98	49.53	1,787.46	2,095.19	7,543.45	7,462.26	81.19	92.912	
800.00	800.00	16,236.00	7,569.74	2.64	158.98	49.53	1,787.46	2,095.19	7,450.45	7,368.98	81.47	91.449	
900.00	900.00	16,236.00	7,569.74	3.00	158.98	49.53	1,787.46	2,095.19	7,357.62	7,275.85	81.77	89.979	
1,000.00	1,000.00	16,236.00	7,569.74	3.36	158.98	49.53	1,787.46	2,095.19	7,264.99	7,182.90	82.09	88.503	
1,100.00	1,100.00	16,236.00	7,569.74	3.72	158.98	49.53	1,787.46	2,095.19	7,172.55	7,090.13	82.42	87.023	
1,200.00	1,200.00	16,236.00	7,569.74	4.08	158.98	49.53	1,787.46	2,095.19	7,080.32	6,997.55	82.77	85.540	
1,300.00	1,300.00	16,236.00	7,569.74	4.44	158.98	49.53	1,787.46	2,095.19	6,988.31	6,905.17	83.14	84.055	
1,400.00	1,399.98	16,236.00	7,569.74	4.79	158.98	7.17	1,787.46	2,095.19	6,895.84	6,812.32	83.52	82.564	
1,500.00	1,499.84	16,236.00	7,569.74	5.15	158.98	7.86	1,787.46	2,095.19	6,802.29	6,718.39	83.90	81.073	
1,600.00	1,599.45	16,236.00	7,569.74	5.51	158.98	8.70	1,787.46	2,095.19	6,707.75	6,623.47	84.27	79.596	
1,700.00	1,698.70	16,236.00	7,569.74	5.87	158.98	9.73	1,787.46	2,095.19	6,612.27	6,527.64	84.63	78.134	
1,800.00	1,797.47	16,236.00	7,569.74	6.24	158.98	11.02	1,787.46	2,095.19	6,515.94	6,430.97	84.97	76.689	
1,900.00	1,895.62	16,236.00	7,569.74	6.63	158.98	12.69	1,787.46	2,095.19	6,418.84	6,333.55	85.29	75.262	
2,000.00	1,993.06	16,236.00	7,569.74	7.04	158.98	14.92	1,787.46	2,095.19	6,321.05	6,235.47	85.59	73.854	
2,100.00	2,089.64	16,236.00	7,569.74	7.48	158.98	18.04	1,787.46	2,095.19	6,222.67	6,136.81	85.87	72.467	
2,200.00	2,185.27	16,236.00	7,569.74	7.94	158.98	22.65	1,787.46	2,095.19	6,123.79	6,037.67	86.13	71.101	
2,300.00	2,279.82	16,236.00	7,569.74	8.45	158.98	30.02	1,787.46	2,095.19	6,024.51	5,938.15	86.36	69.758	
2,400.00	2,373.17	16,236.00	7,569.74	8.99	158.98	42.97	1,787.46	2,095.19	5,924.93	5,838.36	86.57	68.438	
2,500.00	2,465.21	16,236.00	7,569.74	9.58	158.98	66.92	1,787.46	2,095.19	5,825.16	5,738.41	86.76	67.144	
2,574.08	2,532.50	16,236.00	7,569.74	10.04	158.98	92.68	1,787.46	2,095.19	5,751.20	5,664.32	86.87	66.201	
2,600.00	2,555.89	16,236.00	7,569.74	10.21	158.98	92.68	1,787.46	2,095.19	5,725.32	5,638.41	86.91	65.874	
2,700.00	2,646.16	16,236.00	7,569.74	10.88	158.98	92.68	1,787.46	2,095.19	5,625.47	5,538.41	87.07	64.612	
2,800.00	2,736.44	16,236.00	7,569.74	11.57	158.98	92.68	1,787.46	2,095.19	5,525.64	5,438.41	87.22	63.350	
2,900.00	2,826.71	16,236.00	7,569.74	12.27	158.98	92.68	1,787.46	2,095.19	5,425.80	5,338.41	87.39	62.088	
3,000.00	2,916.98	16,236.00	7,569.74	13.00	158.98	92.68	1,787.46	2,095.19	5,325.98	5,238.42	87.56	60.827	
3,100.00	3,007.25	16,236.00	7,569.74	13.73	158.98	92.68	1,787.46	2,095.19	5,226.16	5,138.42	87.74	59.566	
3,200.00	3,097.52	16,236.00	7,569.74	14.48	158.98	92.68	1,787.46	2,095.19	5,126.34	5,038.42	87.92	58.306	
3,300.00	3,187.80	16,236.00	7,569.74	15.23	158.98	92.68	1,787.46	2,095.19	5,026.54	4,938.43	88.11	57.047	
3,400.00	3,278.07	16,236.00	7,569.74	15.99	158.98	92.68	1,787.46	2,095.19	4,926.74	4,838.43	88.31	55.789	
3,500.00	3,368.34	16,236.00	7,569.74	16.76	158.98	92.68	1,787.46	2,095.19	4,826.95	4,738.43	88.52	54.532	
3,600.00	3,458.61	16,236.00	7,569.74	17.54	158.98	92.68	1,787.46	2,095.19	4,727.17	4,638.44	88.73	53.276	
3,700.00	3,548.89	16,236.00	7,569.74	18.32	158.98	92.68	1,787.46	2,095.19	4,627.40	4,538.45	88.95	52.022	
3,800.00	3,639.16	16,236.00	7,569.74	19.10	158.98	92.68	1,787.46	2,095.19	4,527.64	4,438.46	89.18	50.769	
3,900.00	3,729.43	16,236.00	7,569.74	19.89	158.98	92.68	1,787.46	2,095.19	4,427.89	4,338.47	89.42	49.518	
4,000.00	3,819.70	16,236.00	7,569.74	20.69	158.98	92.68	1,787.46	2,095.19	4,328.15	4,238.48	89.67	48.269	
4,100.00	3,909.98	16,236.00	7,569.74	21.48	158.98	92.68	1,787.46	2,095.19	4,228.42	4,138.50	89.93	47.021	
4,200.00	4,000.25	16,236.00	7,569.74	22.28	158.98	92.68	1,787.46	2,095.19	4,128.71	4,038.52	90.19	45.776	
4,300.00	4,090.52	16,236.00	7,569.74	23.08	158.98	92.68	1,787.46	2,095.19	4,029.01	3,938.54	90.47	44.534	
4,400.00	4,180.79	16,236.00	7,569.74	23.88	158.98	92.68	1,787.46	2,095.19	3,929.33	3,838.57	90.76	43.293	
4,500.00	4,271.06	16,236.00	7,569.74	24.69	158.98	92.68	1,787.46	2,095.19	3,829.66	3,738.60	91.06	42.055	
4,600.00	4,361.34	16,236.00	7,569.74	25.49	158.98	92.68	1,787.46	2,095.19	3,730.01	3,638.63	91.38	40.820	
4,700.00	4,451.61	16,236.00	7,569.74	26.30	158.98	92.68	1,787.46	2,095.19	3,630.38	3,538.68	91.71	39.587	
4,800.00	4,541.88	16,236.00	7,569.74	27.11	158.98	92.68	1,787.46	2,095.19	3,530.77	3,438.72	92.05	38.358	
4,900.00	4,632.15	16,236.00	7,569.74	27.92	158.98	92.68	1,787.46	2,095.19	3,431.19	3,338.78	92.41	37.131	
5,000.00	4,722.43	16,236.00	7,569.74	28.74	158.98	92.68	1,787.46	2,095.19	3,331.63	3,238.84	92.78	35.908	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	16,236.00	7,569.74	29.55	158.98	92.68	1,787.46	2,095.19	3,232.09	3,138.91	93.18	34.688	
5,200.00	4,902.97	16,236.00	7,569.74	30.37	158.98	92.68	1,787.46	2,095.19	3,132.59	3,039.00	93.59	33.471	
5,300.00	4,993.24	16,236.00	7,569.74	31.18	158.98	92.68	1,787.46	2,095.19	3,033.11	2,939.09	94.03	32.258	
5,400.00	5,083.51	16,236.00	7,569.74	32.00	158.98	92.68	1,787.46	2,095.19	2,933.68	2,839.19	94.49	31.048	
5,500.00	5,173.79	16,236.00	7,569.74	32.82	158.98	92.68	1,787.46	2,095.19	2,834.28	2,739.31	94.98	29.842	
5,600.00	5,264.06	16,236.00	7,569.74	33.63	158.98	92.68	1,787.46	2,095.19	2,734.93	2,639.44	95.49	28.640	
5,700.00	5,354.33	16,236.00	7,569.74	34.45	158.98	92.68	1,787.46	2,095.19	2,635.63	2,539.59	96.04	27.443	
5,800.00	5,444.60	16,236.00	7,569.74	35.27	158.98	92.68	1,787.46	2,095.19	2,536.38	2,439.75	96.63	26.250	
5,900.00	5,534.88	16,236.00	7,569.74	36.09	158.98	92.68	1,787.46	2,095.19	2,437.19	2,339.94	97.25	25.061	
6,000.00	5,625.15	16,236.00	7,569.74	36.91	158.98	92.68	1,787.46	2,095.19	2,338.07	2,240.15	97.92	23.877	
6,100.00	5,715.42	16,236.00	7,569.74	37.74	158.98	92.68	1,787.46	2,095.19	2,239.03	2,140.39	98.65	22.697	
6,200.00	5,805.69	16,236.00	7,569.74	38.56	158.98	92.68	1,787.46	2,095.19	2,140.08	2,040.65	99.43	21.524	
6,300.00	5,895.96	16,236.00	7,569.74	39.38	158.98	92.68	1,787.46	2,095.19	2,041.23	1,940.95	100.28	20.355	
6,400.00	5,986.24	16,236.00	7,569.74	40.20	158.98	92.68	1,787.46	2,095.19	1,942.50	1,841.29	101.21	19.193	
6,500.00	6,076.51	16,236.00	7,569.74	41.03	158.98	92.68	1,787.46	2,095.19	1,843.91	1,741.68	102.23	18.037	
6,600.00	6,166.78	16,236.00	7,569.74	41.85	158.98	92.68	1,787.46	2,095.19	1,745.48	1,642.12	103.36	16.887	
6,700.00	6,257.05	16,236.00	7,569.74	42.67	158.98	92.68	1,787.46	2,095.19	1,647.23	1,542.62	104.62	15.746	
6,800.00	6,347.33	16,236.00	7,569.74	43.50	158.98	92.68	1,787.46	2,095.19	1,549.21	1,443.19	106.02	14.612	
6,900.00	6,437.60	16,236.00	7,569.74	44.32	158.98	92.68	1,787.46	2,095.19	1,451.47	1,343.86	107.61	13.489	
7,000.00	6,527.87	16,236.00	7,569.74	45.15	158.98	92.68	1,787.46	2,095.19	1,354.04	1,244.63	109.41	12.375	
7,100.00	6,618.14	16,236.00	7,569.74	45.98	158.98	92.68	1,787.46	2,095.19	1,257.03	1,145.54	111.49	11.275	
7,200.00	6,708.41	16,236.00	7,569.74	46.80	158.98	92.68	1,787.46	2,095.19	1,160.52	1,046.62	113.90	10.189	
7,300.00	6,798.69	16,236.00	7,569.74	47.63	158.98	92.68	1,787.46	2,095.19	1,064.66	947.93	116.73	9.121	
7,400.00	6,888.96	16,236.00	7,569.74	48.45	158.98	92.68	1,787.46	2,095.19	969.63	849.55	120.08	8.075	
7,500.00	6,979.23	16,236.00	7,569.74	49.28	158.98	92.68	1,787.46	2,095.19	875.71	751.60	124.11	7.056	
7,600.00	7,069.50	16,236.00	7,569.74	50.11	158.98	92.68	1,787.46	2,095.19	783.29	654.29	129.01	6.072	
7,692.09	7,152.63	16,217.85	7,569.84	50.87	158.66	90.50	1,805.61	2,095.51	699.80	566.27	133.54	5.241	
7,700.00	7,159.79	16,215.33	7,569.85	50.93	158.62	87.80	1,808.13	2,095.56	692.66	558.74	133.92	5.172	
7,750.00	7,205.70	16,201.83	7,569.92	51.32	158.39	68.01	1,821.62	2,095.80	647.03	510.45	136.58	4.737	
7,800.00	7,252.52	16,192.58	7,569.97	51.66	158.22	43.68	1,830.87	2,095.97	600.84	461.13	139.71	4.301	
7,850.00	7,299.89	16,187.87	7,569.99	51.96	158.14	16.46	1,835.58	2,096.05	554.55	411.17	143.38	3.868	
7,900.00	7,347.44	16,187.24	7,569.99	52.20	158.13	-10.57	1,836.20	2,096.06	508.68	361.02	147.66	3.445	
7,950.00	7,394.83	16,190.84	7,569.98	52.39	158.19	-34.11	1,832.61	2,096.00	463.76	311.11	152.65	3.038	
8,000.00	7,441.68	16,198.95	7,569.93	52.53	158.34	-52.42	1,824.51	2,095.85	420.37	261.93	158.45	2.653	
8,050.00	7,487.65	16,211.32	7,569.87	52.62	158.55	-65.60	1,812.13	2,095.63	379.16	214.07	165.09	2.297	
8,100.00	7,532.37	16,227.87	7,569.78	52.67	158.84	-74.49	1,795.59	2,095.33	340.81	168.27	172.55	1.975	
8,150.00	7,575.52	16,236.00	7,569.74	52.67	158.98	-82.35	1,787.46	2,095.19	306.35	127.19	179.16	1.710	
8,200.00	7,616.76	16,236.00	7,569.74	52.63	158.98	-89.33	1,787.46	2,095.19	278.26	94.96	183.30	1.518	
8,250.00	7,655.77	16,236.00	7,569.74	52.55	158.98	-94.21	1,787.46	2,095.19	259.01	75.27	183.74	1.410	Level 3
8,300.00	7,692.27	16,236.00	7,569.74	52.44	158.98	-97.33	1,787.46	2,095.19	250.79	72.06	178.73	1.403	Level 3, ES, SF
8,308.88	7,698.47	16,236.00	7,569.74	52.41	158.98	-97.72	1,787.46	2,095.19	250.59	73.36	177.23	1.414	Level 3, CC
8,350.00	7,725.97	16,236.00	7,569.74	52.29	158.98	-98.90	1,787.46	2,095.19	254.73	86.43	168.30	1.514	
8,400.00	7,756.62	16,236.00	7,569.74	52.12	158.98	-99.02	1,787.46	2,095.19	270.29	115.52	154.77	1.746	
8,450.00	7,783.98	16,236.00	7,569.74	51.92	158.98	-97.68	1,787.46	2,095.19	295.51	154.52	141.00	2.096	
8,500.00	7,807.85	16,236.00	7,569.74	51.70	158.98	-94.79	1,787.46	2,095.19	328.03	199.21	128.82	2.546	
8,550.00	7,828.05	16,236.00	7,569.74	51.45	158.98	-90.21	1,787.46	2,095.19	365.68	246.83	118.85	3.077	
8,600.00	7,844.41	16,236.00	7,569.74	51.20	158.98	-83.81	1,787.46	2,095.19	406.81	295.82	110.99	3.665	
8,650.00	7,856.82	16,236.00	7,569.74	50.93	158.98	-75.57	1,787.46	2,095.19	450.18	345.30	104.88	4.292	
8,700.00	7,865.18	16,236.00	7,569.74	50.65	158.98	-65.81	1,787.46	2,095.19	494.93	394.79	100.14	4.942	
8,750.00	7,869.43	16,236.00	7,569.74	50.36	158.98	-55.21	1,787.46	2,095.19	540.42	443.97	96.45	5.603	
8,776.25	7,870.00	16,236.00	7,569.74	50.21	158.98	-49.64	1,787.46	2,095.19	564.43	469.59	94.84	5.951	
8,800.00	7,870.00	16,236.00	7,569.74	50.08	158.98	-49.64	1,787.46	2,095.19	586.24	492.71	93.54	6.268	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	16,236.00	7,569.74	49.53	158.98	-49.64	1,787.46	2,095.19	679.52	590.44	89.08	7.628	
9,000.00	7,870.00	16,236.00	7,569.74	49.01	158.98	-49.64	1,787.46	2,095.19	774.48	688.59	85.89	9.017	
9,100.00	7,870.00	16,236.00	7,569.74	48.52	158.98	-49.64	1,787.46	2,095.19	870.57	787.01	83.56	10.418	
9,200.00	7,870.00	16,236.00	7,569.74	48.06	158.98	-49.64	1,787.46	2,095.19	967.45	885.61	81.84	11.821	
9,300.00	7,870.00	16,236.00	7,569.74	47.63	158.98	-49.64	1,787.46	2,095.19	1,064.91	984.36	80.54	13.222	
9,400.00	7,870.00	16,236.00	7,569.74	47.22	158.98	-49.64	1,787.46	2,095.19	1,162.80	1,083.24	79.55	14.617	
9,500.00	7,870.00	16,236.00	7,569.74	46.83	158.98	-49.64	1,787.46	2,095.19	1,261.02	1,182.23	78.79	16.004	
9,600.00	7,870.00	16,236.00	7,569.74	46.48	158.98	-49.64	1,787.46	2,095.19	1,359.50	1,281.30	78.20	17.385	
9,700.00	7,870.00	16,236.00	7,569.74	46.14	158.98	-49.64	1,787.46	2,095.19	1,458.18	1,380.45	77.73	18.758	
9,800.00	7,870.00	16,236.00	7,569.74	45.83	158.98	-49.64	1,787.46	2,095.19	1,557.04	1,479.67	77.37	20.125	
9,900.00	7,870.00	16,236.00	7,569.74	45.54	158.98	-49.64	1,787.46	2,095.19	1,656.03	1,578.96	77.08	21.486	
10,000.00	7,870.00	16,236.00	7,569.74	45.27	158.98	-49.64	1,787.46	2,095.19	1,755.14	1,678.29	76.84	22.841	
10,100.00	7,870.00	16,236.00	7,569.74	45.03	158.98	-49.64	1,787.46	2,095.19	1,854.34	1,777.68	76.66	24.190	
10,200.00	7,870.00	16,236.00	7,569.74	44.82	158.98	-49.64	1,787.46	2,095.19	1,953.62	1,877.12	76.51	25.535	
10,300.00	7,870.00	16,236.00	7,569.74	44.66	158.98	-49.64	1,787.46	2,095.19	2,052.98	1,976.59	76.39	26.875	
10,400.00	7,870.00	16,236.00	7,569.74	44.56	158.98	-49.64	1,787.46	2,095.19	2,152.39	2,076.10	76.29	28.212	
10,500.00	7,870.00	16,236.00	7,569.74	44.58	158.98	-49.64	1,787.46	2,095.19	2,251.86	2,175.64	76.22	29.545	
10,600.00	7,870.00	16,236.00	7,569.74	44.82	158.98	-49.64	1,787.46	2,095.19	2,351.37	2,275.21	76.16	30.875	
10,700.00	7,870.00	16,236.00	7,569.74	45.36	158.98	-49.64	1,787.46	2,095.19	2,450.92	2,374.81	76.11	32.202	
10,800.00	7,870.00	16,236.00	7,569.74	46.15	158.98	-49.64	1,787.46	2,095.19	2,550.50	2,474.43	76.08	33.526	
10,900.00	7,870.00	16,236.00	7,569.74	47.09	158.98	-49.64	1,787.46	2,095.19	2,650.12	2,574.07	76.05	34.848	
11,000.00	7,870.00	16,236.00	7,569.74	48.13	158.98	-49.64	1,787.46	2,095.19	2,749.76	2,673.73	76.03	36.167	
11,100.00	7,870.00	16,236.00	7,569.74	49.22	158.98	-49.64	1,787.46	2,095.19	2,849.43	2,773.41	76.02	37.484	
11,200.00	7,870.00	16,236.00	7,569.74	50.37	158.98	-49.64	1,787.46	2,095.19	2,949.12	2,873.11	76.01	38.799	
11,300.00	7,870.00	16,236.00	7,569.74	51.55	158.98	-49.64	1,787.46	2,095.19	3,048.84	2,972.83	76.01	40.112	
11,400.00	7,870.00	16,236.00	7,569.74	52.76	158.98	-49.64	1,787.46	2,095.19	3,148.57	3,072.56	76.01	41.423	
11,500.00	7,870.00	16,236.00	7,569.74	54.00	158.98	-49.64	1,787.46	2,095.19	3,248.31	3,172.30	76.02	42.732	
11,600.00	7,870.00	16,236.00	7,569.74	55.27	158.98	-49.64	1,787.46	2,095.19	3,348.08	3,272.05	76.02	44.039	
11,700.00	7,870.00	16,236.00	7,569.74	56.56	158.98	-49.64	1,787.46	2,095.19	3,447.85	3,371.82	76.04	45.345	
11,800.00	7,870.00	16,236.00	7,569.74	57.88	158.98	-49.64	1,787.46	2,095.19	3,547.64	3,471.59	76.05	46.650	
11,900.00	7,870.00	16,236.00	7,569.74	59.21	158.98	-49.64	1,787.46	2,095.19	3,647.44	3,571.38	76.06	47.953	
12,000.00	7,870.00	16,236.00	7,569.74	60.57	158.98	-49.64	1,787.46	2,095.19	3,747.25	3,671.17	76.08	49.254	
12,100.00	7,870.00	16,236.00	7,569.74	61.94	158.98	-49.64	1,787.46	2,095.19	3,847.07	3,770.97	76.10	50.554	
12,200.00	7,870.00	16,236.00	7,569.74	63.33	158.98	-49.64	1,787.46	2,095.19	3,946.90	3,870.78	76.12	51.852	
12,300.00	7,870.00	16,236.00	7,569.74	64.74	158.98	-49.64	1,787.46	2,095.19	4,046.74	3,970.60	76.14	53.149	
12,400.00	7,870.00	16,236.00	7,569.74	66.16	158.98	-49.64	1,787.46	2,095.19	4,146.58	4,070.42	76.16	54.444	
12,500.00	7,870.00	16,236.00	7,569.74	67.59	158.98	-49.64	1,787.46	2,095.19	4,246.44	4,170.25	76.19	55.738	
12,600.00	7,870.00	16,236.00	7,569.74	69.04	158.98	-49.64	1,787.46	2,095.19	4,346.30	4,270.09	76.21	57.031	
12,700.00	7,870.00	16,236.00	7,569.74	70.51	158.98	-49.64	1,787.46	2,095.19	4,446.16	4,369.93	76.23	58.322	
12,800.00	7,870.00	16,236.00	7,569.74	71.98	158.98	-49.64	1,787.46	2,095.19	4,546.04	4,469.78	76.26	59.612	
12,900.00	7,870.00	16,236.00	7,569.74	73.47	158.98	-49.64	1,787.46	2,095.19	4,645.91	4,569.63	76.29	60.901	
13,000.00	7,870.00	16,236.00	7,569.74	74.96	158.98	-49.64	1,787.46	2,095.19	4,745.80	4,669.48	76.31	62.188	
13,100.00	7,870.00	16,236.00	7,569.74	76.47	158.98	-49.64	1,787.46	2,095.19	4,845.68	4,769.34	76.34	63.474	
13,200.00	7,870.00	16,236.00	7,569.74	77.99	158.98	-49.64	1,787.46	2,095.19	4,945.58	4,869.21	76.37	64.758	
13,300.00	7,870.00	16,236.00	7,569.74	79.51	158.98	-49.64	1,787.46	2,095.19	5,045.47	4,969.07	76.40	66.041	
13,400.00	7,870.00	16,236.00	7,569.74	81.05	158.98	-49.64	1,787.46	2,095.19	5,145.37	5,068.94	76.43	67.323	
13,500.00	7,870.00	16,236.00	7,569.74	82.59	158.98	-49.64	1,787.46	2,095.19	5,245.28	5,168.82	76.46	68.603	
13,600.00	7,870.00	16,236.00	7,569.74	84.14	158.98	-49.64	1,787.46	2,095.19	5,345.18	5,268.69	76.49	69.882	
13,700.00	7,870.00	16,236.00	7,569.74	85.70	158.98	-49.64	1,787.46	2,095.19	5,445.09	5,368.57	76.52	71.159	
13,800.00	7,870.00	16,236.00	7,569.74	87.26	158.98	-49.64	1,787.46	2,095.19	5,545.01	5,468.46	76.55	72.435	
13,900.00	7,870.00	16,236.00	7,569.74	88.83	158.98	-49.64	1,787.46	2,095.19	5,644.93	5,568.34	76.58	73.709	
14,000.00	7,870.00	16,236.00	7,569.74	90.41	158.98	-49.64	1,787.46	2,095.19	5,744.85	5,668.23	76.62	74.982	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	16,236.00	7,569.74	92.00	158.98	-49.64	1,787.46	2,095.19	5,844.77	5,768.12	76.65	76.253	
14,200.00	7,870.00	16,236.00	7,569.74	93.59	158.98	-49.64	1,787.46	2,095.19	5,944.70	5,868.01	76.68	77.523	
14,300.00	7,870.00	16,236.00	7,569.74	95.18	158.98	-49.64	1,787.46	2,095.19	6,044.62	5,967.91	76.72	78.791	
14,400.00	7,870.00	16,236.00	7,569.74	96.79	158.98	-49.64	1,787.46	2,095.19	6,144.55	6,067.80	76.75	80.058	
14,500.00	7,870.00	16,236.00	7,569.74	98.39	158.98	-49.64	1,787.46	2,095.19	6,244.49	6,167.70	76.79	81.323	
14,600.00	7,870.00	16,236.00	7,569.74	100.00	158.98	-49.64	1,787.46	2,095.19	6,344.42	6,267.60	76.82	82.587	
14,700.00	7,870.00	16,236.00	7,569.74	101.62	158.98	-49.64	1,787.46	2,095.19	6,444.36	6,367.50	76.86	83.849	
14,800.00	7,870.00	16,236.00	7,569.74	103.24	158.98	-49.64	1,787.46	2,095.19	6,544.30	6,467.40	76.89	85.109	
14,900.00	7,870.00	16,236.00	7,569.74	104.87	158.98	-49.64	1,787.46	2,095.19	6,644.24	6,567.31	76.93	86.368	
15,000.00	7,870.00	16,236.00	7,569.74	106.50	158.98	-49.64	1,787.46	2,095.19	6,744.18	6,667.21	76.97	87.625	
15,100.00	7,870.00	16,236.00	7,569.74	108.13	158.98	-49.64	1,787.46	2,095.19	6,844.12	6,767.12	77.00	88.881	
15,200.00	7,870.00	16,236.00	7,569.74	109.77	158.98	-49.64	1,787.46	2,095.19	6,944.07	6,867.03	77.04	90.134	
15,300.00	7,870.00	16,236.00	7,569.74	111.41	158.98	-49.64	1,787.46	2,095.19	7,044.02	6,966.94	77.08	91.387	
15,400.00	7,870.00	16,236.00	7,569.74	113.05	158.98	-49.64	1,787.46	2,095.19	7,143.96	7,066.85	77.12	92.637	
15,500.00	7,870.00	16,236.00	7,569.74	114.70	158.98	-49.64	1,787.46	2,095.19	7,243.91	7,166.76	77.16	93.886	
15,600.00	7,870.00	16,236.00	7,569.74	116.35	158.98	-49.64	1,787.46	2,095.19	7,343.87	7,266.67	77.20	95.132	
15,700.00	7,870.00	16,236.00	7,569.74	118.00	158.98	-49.64	1,787.46	2,095.19	7,443.82	7,366.58	77.24	96.378	
15,800.00	7,870.00	16,236.00	7,569.74	119.66	158.98	-49.64	1,787.46	2,095.19	7,543.77	7,466.50	77.28	97.621	
15,900.00	7,870.00	16,236.00	7,569.74	121.32	158.98	-49.64	1,787.46	2,095.19	7,643.73	7,566.41	77.32	98.862	
16,000.00	7,870.00	16,236.00	7,569.74	122.98	158.98	-49.64	1,787.46	2,095.19	7,743.68	7,666.33	77.36	100.102	
16,100.00	7,870.00	16,236.00	7,569.74	124.65	158.98	-49.64	1,787.46	2,095.19	7,843.64	7,766.24	77.40	101.340	
16,200.00	7,870.00	16,236.00	7,569.74	126.32	158.98	-49.64	1,787.46	2,095.19	7,943.60	7,866.16	77.44	102.576	
16,300.00	7,870.00	16,236.00	7,569.74	127.99	158.98	-49.64	1,787.46	2,095.19	8,043.56	7,966.08	77.48	103.810	
16,400.00	7,870.00	16,236.00	7,569.74	129.66	158.98	-49.64	1,787.46	2,095.19	8,143.52	8,065.99	77.53	105.042	
16,500.00	7,870.00	16,236.00	7,569.74	131.33	158.98	-49.64	1,787.46	2,095.19	8,243.48	8,165.91	77.57	106.272	
16,600.00	7,870.00	16,236.00	7,569.74	133.01	158.98	-49.64	1,787.46	2,095.19	8,343.44	8,265.83	77.61	107.500	
16,700.00	7,870.00	16,236.00	7,569.74	134.69	158.98	-49.64	1,787.46	2,095.19	8,443.41	8,365.75	77.66	108.727	
16,800.00	7,870.00	16,236.00	7,569.74	136.37	158.98	-49.64	1,787.46	2,095.19	8,543.37	8,465.67	77.70	109.951	
16,900.00	7,870.00	16,236.00	7,569.74	138.06	158.98	-49.64	1,787.46	2,095.19	8,643.34	8,565.59	77.75	111.173	
17,000.00	7,870.00	16,236.00	7,569.74	139.74	158.98	-49.64	1,787.46	2,095.19	8,743.30	8,665.51	77.79	112.393	
17,100.00	7,870.00	16,236.00	7,569.74	141.43	158.98	-49.64	1,787.46	2,095.19	8,843.27	8,765.43	77.84	113.612	
17,200.00	7,870.00	16,236.00	7,569.74	143.12	158.98	-49.64	1,787.46	2,095.19	8,943.24	8,865.35	77.88	114.828	
17,300.00	7,870.00	16,236.00	7,569.74	144.81	158.98	-49.64	1,787.46	2,095.19	9,043.20	8,965.27	77.93	116.042	
17,400.00	7,870.00	16,236.00	7,569.74	146.50	158.98	-49.64	1,787.46	2,095.19	9,143.17	9,065.20	77.98	117.254	
17,500.00	7,870.00	16,236.00	7,569.74	148.19	158.98	-49.64	1,787.46	2,095.19	9,243.14	9,165.12	78.02	118.464	
17,600.00	7,870.00	16,236.00	7,569.74	149.89	158.98	-49.64	1,787.46	2,095.19	9,343.11	9,265.04	78.07	119.672	
17,700.00	7,870.00	16,236.00	7,569.74	151.59	158.98	-49.64	1,787.46	2,095.19	9,443.08	9,364.96	78.12	120.878	
17,800.00	7,870.00	16,236.00	7,569.74	153.29	158.98	-49.64	1,787.46	2,095.19	9,543.05	9,464.88	78.17	122.081	
17,900.00	7,870.00	16,236.00	7,569.74	154.99	158.98	-49.64	1,787.46	2,095.19	9,643.03	9,564.81	78.22	123.282	
18,000.00	7,870.00	16,236.00	7,569.74	156.69	158.98	-49.64	1,787.46	2,095.19	9,743.00	9,664.73	78.27	124.482	
18,100.00	7,870.00	16,236.00	7,569.74	158.39	158.98	-49.64	1,787.46	2,095.19	9,842.97	9,764.65	78.32	125.678	
18,200.00	7,870.00	16,236.00	7,569.74	160.09	158.98	-49.64	1,787.46	2,095.19	9,942.95	9,864.58	78.37	126.873	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16,659.00	7,678.61	0.00	161.70	39.54	1,781.78	1,470.67	8,165.28				
100.00	100.00	16,659.00	7,678.61	0.13	161.70	39.54	1,781.78	1,470.67	8,069.41	7,990.29	79.12	101.992	
200.00	200.00	16,659.00	7,678.61	0.49	161.70	39.54	1,781.78	1,470.67	7,973.65	7,894.46	79.19	100.690	
300.00	300.00	16,659.00	7,678.61	0.85	161.70	39.54	1,781.78	1,470.67	7,877.99	7,798.72	79.27	99.376	
400.00	400.00	16,659.00	7,678.61	1.21	161.70	39.54	1,781.78	1,470.67	7,782.45	7,703.07	79.37	98.051	
500.00	500.00	16,659.00	7,678.61	1.57	161.70	39.54	1,781.78	1,470.67	7,687.01	7,607.53	79.48	96.715	
600.00	600.00	16,659.00	7,678.61	1.93	161.70	39.54	1,781.78	1,470.67	7,591.69	7,512.09	79.60	95.370	
700.00	700.00	16,659.00	7,678.61	2.29	161.70	39.54	1,781.78	1,470.67	7,496.50	7,416.76	79.74	94.016	
800.00	800.00	16,659.00	7,678.61	2.64	161.70	39.54	1,781.78	1,470.67	7,401.43	7,321.55	79.88	92.654	
900.00	900.00	16,659.00	7,678.61	3.00	161.70	39.54	1,781.78	1,470.67	7,306.49	7,226.45	80.04	91.285	
1,000.00	1,000.00	16,659.00	7,678.61	3.36	161.70	39.54	1,781.78	1,470.67	7,211.69	7,131.48	80.21	89.910	
1,100.00	1,100.00	16,659.00	7,678.61	3.72	161.70	39.54	1,781.78	1,470.67	7,117.04	7,036.64	80.39	88.530	
1,200.00	1,200.00	16,659.00	7,678.61	4.08	161.70	39.54	1,781.78	1,470.67	7,022.53	6,941.94	80.58	87.145	
1,300.00	1,300.00	16,659.00	7,678.61	4.44	161.70	39.54	1,781.78	1,470.67	6,928.17	6,847.38	80.79	85.758	
1,400.00	1,399.98	16,659.00	7,678.61	4.79	161.70	-3.78	1,781.78	1,470.67	6,833.41	6,752.40	81.00	84.361	
1,500.00	1,499.84	16,659.00	7,678.61	5.15	161.70	-4.24	1,781.78	1,470.67	6,737.72	6,656.50	81.22	82.960	
1,600.00	1,599.45	16,659.00	7,678.61	5.51	161.70	-4.83	1,781.78	1,470.67	6,641.18	6,559.76	81.42	81.569	
1,700.00	1,698.70	16,659.00	7,678.61	5.87	161.70	-5.59	1,781.78	1,470.67	6,543.88	6,462.27	81.61	80.188	
1,800.00	1,797.47	16,659.00	7,678.61	6.24	161.70	-6.63	1,781.78	1,470.67	6,445.90	6,364.12	81.78	78.820	
1,900.00	1,895.62	16,659.00	7,678.61	6.63	161.70	-8.14	1,781.78	1,470.67	6,347.34	6,265.40	81.94	77.466	
2,000.00	1,993.06	16,659.00	7,678.61	7.04	161.70	-10.47	1,781.78	1,470.67	6,248.29	6,166.21	82.08	76.128	
2,100.00	2,089.64	16,659.00	7,678.61	7.48	161.70	-14.59	1,781.78	1,470.67	6,148.84	6,066.64	82.20	74.806	
2,200.00	2,185.27	16,659.00	7,678.61	7.94	161.70	-23.54	1,781.78	1,470.67	6,049.11	5,966.81	82.30	73.502	
2,300.00	2,279.82	16,659.00	7,678.61	8.45	161.70	-52.34	1,781.78	1,470.67	5,949.20	5,866.82	82.38	72.218	
2,400.00	2,373.17	16,659.00	7,678.61	8.99	161.70	-126.03	1,781.78	1,470.67	5,849.23	5,766.80	82.44	70.954	
2,500.00	2,465.21	16,659.00	7,678.61	9.58	161.70	-155.56	1,781.78	1,470.67	5,749.33	5,666.85	82.47	69.710	
2,574.08	2,532.50	16,659.00	7,678.61	10.04	161.70	-163.01	1,781.78	1,470.67	5,675.43	5,592.94	82.49	68.804	
2,600.00	2,555.89	16,659.00	7,678.61	10.21	161.70	-163.01	1,781.78	1,470.67	5,649.60	5,567.11	82.49	68.489	
2,700.00	2,646.16	16,659.00	7,678.61	10.88	161.70	-163.01	1,781.78	1,470.67	5,549.95	5,467.45	82.50	67.270	
2,800.00	2,736.44	16,659.00	7,678.61	11.57	161.70	-163.01	1,781.78	1,470.67	5,450.32	5,367.80	82.52	66.050	
2,900.00	2,826.71	16,659.00	7,678.61	12.27	161.70	-163.01	1,781.78	1,470.67	5,350.70	5,268.16	82.54	64.829	
3,000.00	2,916.98	16,659.00	7,678.61	13.00	161.70	-163.01	1,781.78	1,470.67	5,251.09	5,168.54	82.55	63.608	
3,100.00	3,007.25	16,659.00	7,678.61	13.73	161.70	-163.01	1,781.78	1,470.67	5,151.50	5,068.93	82.57	62.386	
3,200.00	3,097.52	16,659.00	7,678.61	14.48	161.70	-163.01	1,781.78	1,470.67	5,051.93	4,969.33	82.60	61.164	
3,300.00	3,187.80	16,659.00	7,678.61	15.23	161.70	-163.01	1,781.78	1,470.67	4,952.37	4,869.75	82.62	59.942	
3,400.00	3,278.07	16,659.00	7,678.61	15.99	161.70	-163.01	1,781.78	1,470.67	4,852.83	4,770.19	82.64	58.720	
3,500.00	3,368.34	16,659.00	7,678.61	16.76	161.70	-163.01	1,781.78	1,470.67	4,753.31	4,670.64	82.67	57.498	
3,600.00	3,458.61	16,659.00	7,678.61	17.54	161.70	-163.01	1,781.78	1,470.67	4,653.81	4,571.12	82.70	56.277	
3,700.00	3,548.89	16,659.00	7,678.61	18.32	161.70	-163.01	1,781.78	1,470.67	4,554.33	4,471.61	82.72	55.055	
3,800.00	3,639.16	16,659.00	7,678.61	19.10	161.70	-163.01	1,781.78	1,470.67	4,454.88	4,372.13	82.75	53.835	
3,900.00	3,729.43	16,659.00	7,678.61	19.89	161.70	-163.01	1,781.78	1,470.67	4,355.45	4,272.67	82.78	52.615	
4,000.00	3,819.70	16,659.00	7,678.61	20.69	161.70	-163.01	1,781.78	1,470.67	4,256.05	4,173.24	82.81	51.396	
4,100.00	3,909.98	16,659.00	7,678.61	21.48	161.70	-163.01	1,781.78	1,470.67	4,156.67	4,073.83	82.84	50.177	
4,200.00	4,000.25	16,659.00	7,678.61	22.28	161.70	-163.01	1,781.78	1,470.67	4,057.33	3,974.46	82.87	48.960	
4,300.00	4,090.52	16,659.00	7,678.61	23.08	161.70	-163.01	1,781.78	1,470.67	3,958.02	3,875.12	82.90	47.744	
4,400.00	4,180.79	16,659.00	7,678.61	23.88	161.70	-163.01	1,781.78	1,470.67	3,858.75	3,775.81	82.93	46.529	
4,500.00	4,271.06	16,659.00	7,678.61	24.69	161.70	-163.01	1,781.78	1,470.67	3,759.51	3,676.55	82.96	45.315	
4,600.00	4,361.34	16,659.00	7,678.61	25.49	161.70	-163.01	1,781.78	1,470.67	3,660.32	3,577.32	83.00	44.103	
4,700.00	4,451.61	16,659.00	7,678.61	26.30	161.70	-163.01	1,781.78	1,470.67	3,561.17	3,478.14	83.03	42.892	
4,800.00	4,541.88	16,659.00	7,678.61	27.11	161.70	-163.01	1,781.78	1,470.67	3,462.07	3,379.01	83.06	41.682	
4,900.00	4,632.15	16,659.00	7,678.61	27.92	161.70	-163.01	1,781.78	1,470.67	3,363.02	3,279.93	83.09	40.474	
5,000.00	4,722.43	16,659.00	7,678.61	28.74	161.70	-163.01	1,781.78	1,470.67	3,264.03	3,180.91	83.12	39.268	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	16,659.00	7,678.61	29.55	161.70	-163.01	1,781.78	1,470.67	3,165.11	3,081.95	83.15	38.063	
5,200.00	4,902.97	16,659.00	7,678.61	30.37	161.70	-163.01	1,781.78	1,470.67	3,066.25	2,983.06	83.19	36.860	
5,300.00	4,993.24	16,659.00	7,678.61	31.18	161.70	-163.01	1,781.78	1,470.67	2,967.47	2,884.25	83.22	35.658	
5,400.00	5,083.51	16,659.00	7,678.61	32.00	161.70	-163.01	1,781.78	1,470.67	2,868.78	2,785.52	83.25	34.458	
5,500.00	5,173.79	16,659.00	7,678.61	32.82	161.70	-163.01	1,781.78	1,470.67	2,770.18	2,686.89	83.29	33.259	
5,600.00	5,264.06	16,659.00	7,678.61	33.63	161.70	-163.01	1,781.78	1,470.67	2,671.68	2,588.35	83.33	32.062	
5,700.00	5,354.33	16,659.00	7,678.61	34.45	161.70	-163.01	1,781.78	1,470.67	2,573.30	2,489.93	83.37	30.865	
5,800.00	5,444.60	16,659.00	7,678.61	35.27	161.70	-163.01	1,781.78	1,470.67	2,475.05	2,391.63	83.42	29.670	
5,900.00	5,534.88	16,659.00	7,678.61	36.09	161.70	-163.01	1,781.78	1,470.67	2,376.95	2,293.47	83.47	28.476	
6,000.00	5,625.15	16,659.00	7,678.61	36.91	161.70	-163.01	1,781.78	1,470.67	2,279.01	2,195.47	83.53	27.282	
6,100.00	5,715.42	16,659.00	7,678.61	37.74	161.70	-163.01	1,781.78	1,470.67	2,181.25	2,097.64	83.61	26.089	
6,200.00	5,805.69	16,659.00	7,678.61	38.56	161.70	-163.01	1,781.78	1,470.67	2,083.71	2,000.01	83.70	24.895	
6,300.00	5,895.96	16,659.00	7,678.61	39.38	161.70	-163.01	1,781.78	1,470.67	1,986.42	1,902.60	83.81	23.701	
6,400.00	5,986.24	16,659.00	7,678.61	40.20	161.70	-163.01	1,781.78	1,470.67	1,889.40	1,805.45	83.95	22.505	
6,500.00	6,076.51	16,659.00	7,678.61	41.03	161.70	-163.01	1,781.78	1,470.67	1,792.72	1,708.59	84.13	21.308	
6,600.00	6,166.78	16,659.00	7,678.61	41.85	161.70	-163.01	1,781.78	1,470.67	1,696.42	1,612.05	84.37	20.108	
6,700.00	6,257.05	16,659.00	7,678.61	42.67	161.70	-163.01	1,781.78	1,470.67	1,600.57	1,515.90	84.67	18.904	
6,800.00	6,347.33	16,659.00	7,678.61	43.50	161.70	-163.01	1,781.78	1,470.67	1,505.27	1,420.20	85.07	17.695	
6,900.00	6,437.60	16,659.00	7,678.61	44.32	161.70	-163.01	1,781.78	1,470.67	1,410.61	1,325.02	85.59	16.480	
7,000.00	6,527.87	16,659.00	7,678.61	45.15	161.70	-163.01	1,781.78	1,470.67	1,316.75	1,230.45	86.30	15.258	
7,100.00	6,618.14	16,659.00	7,678.61	45.98	161.70	-163.01	1,781.78	1,470.67	1,223.86	1,136.61	87.24	14.028	
7,200.00	6,708.41	16,659.00	7,678.61	46.80	161.70	-163.01	1,781.78	1,470.67	1,132.18	1,043.65	88.52	12.790	
7,300.00	6,798.69	16,659.00	7,678.61	47.63	161.70	-163.01	1,781.78	1,470.67	1,042.03	951.76	90.27	11.544	
7,400.00	6,888.96	16,659.00	7,678.61	48.45	161.70	-163.01	1,781.78	1,470.67	953.84	861.18	92.66	10.294	
7,500.00	6,979.23	16,659.00	7,678.61	49.28	161.70	-163.01	1,781.78	1,470.67	868.22	772.27	95.95	9.049	
7,600.00	7,069.50	16,646.32	7,678.46	50.11	161.48	-161.68	1,794.46	1,470.58	785.90	685.47	100.43	7.825	
7,692.09	7,152.63	16,618.50	7,678.13	50.87	160.99	-158.66	1,822.27	1,470.37	713.17	606.98	106.19	6.716	
7,700.00	7,159.79	16,616.17	7,678.10	50.93	160.95	-158.73	1,824.61	1,470.35	707.07	600.28	106.79	6.621	
7,750.00	7,205.70	16,604.27	7,677.96	51.32	160.74	-160.67	1,836.50	1,470.26	668.66	557.65	111.01	6.024	
7,800.00	7,252.52	16,596.63	7,677.88	51.66	160.61	-165.80	1,844.14	1,470.21	630.94	514.82	116.12	5.433	
7,850.00	7,299.89	16,593.01	7,677.85	51.96	160.55	-174.26	1,847.76	1,470.18	594.54	472.32	122.23	4.864	
7,900.00	7,347.44	16,593.51	7,677.85	52.20	160.56	175.07	1,847.26	1,470.19	560.10	430.75	129.35	4.330	
7,950.00	7,394.83	16,598.18	7,677.90	52.39	160.64	164.21	1,842.59	1,470.22	528.26	390.80	137.46	3.843	
8,000.00	7,441.68	16,615.09	7,677.99	52.53	160.93	154.64	1,833.86	1,470.28	499.67	353.16	146.51	3.410	
8,050.00	7,487.65	16,620.45	7,678.15	52.62	161.03	146.53	1,820.32	1,470.38	474.92	319.03	155.89	3.046	
8,100.00	7,532.37	16,638.13	7,678.36	52.67	161.33	139.61	1,802.65	1,470.52	454.44	288.93	165.51	2.746	
8,150.00	7,575.52	16,659.81	7,678.62	52.67	161.71	133.43	1,780.96	1,470.68	438.51	263.74	174.77	2.509	
8,200.00	7,616.76	16,659.00	7,678.61	52.63	161.70	130.61	1,781.78	1,470.67	427.97	243.73	184.25	2.323	
8,250.00	7,655.77	16,659.00	7,678.61	52.55	161.70	127.93	1,781.78	1,470.67	423.84	231.79	192.05	2.207	
8,256.28	7,660.50	16,659.00	7,678.61	52.54	161.70	127.60	1,781.78	1,470.67	423.79	230.91	192.87	2.197	CC
8,300.00	7,692.27	16,659.00	7,678.61	52.44	161.70	125.27	1,781.78	1,470.67	426.32	228.75	197.57	2.158	ES, SF
8,350.00	7,725.97	16,659.00	7,678.61	52.29	161.70	122.46	1,781.78	1,470.67	435.28	234.74	200.54	2.171	
8,400.00	7,756.62	16,659.00	7,678.61	52.12	161.70	119.39	1,781.78	1,470.67	450.28	249.24	201.04	2.240	
8,450.00	7,783.98	16,659.00	7,678.61	51.92	161.70	115.96	1,781.78	1,470.67	470.62	271.19	199.43	2.360	
8,500.00	7,807.85	16,659.00	7,678.61	51.70	161.70	112.14	1,781.78	1,470.67	495.51	299.28	196.24	2.525	
8,550.00	7,828.05	16,659.00	7,678.61	51.45	161.70	107.91	1,781.78	1,470.67	524.13	332.18	191.95	2.731	
8,600.00	7,844.41	16,659.00	7,678.61	51.20	161.70	103.27	1,781.78	1,470.67	555.69	368.70	186.99	2.972	
8,650.00	7,856.82	16,659.00	7,678.61	50.93	161.70	98.32	1,781.78	1,470.67	589.51	407.83	181.68	3.245	
8,700.00	7,865.18	16,659.00	7,678.61	50.65	161.70	93.13	1,781.78	1,470.67	624.99	448.75	176.23	3.546	
8,750.00	7,869.43	16,659.00	7,678.61	50.36	161.70	87.88	1,781.78	1,470.67	661.60	490.81	170.80	3.874	
8,776.25	7,870.00	16,659.00	7,678.61	50.21	161.70	85.14	1,781.78	1,470.67	681.14	513.16	167.97	4.055	
8,800.00	7,870.00	16,659.00	7,678.61	50.08	161.70	85.14	1,781.78	1,470.67	699.05	533.59	165.47	4.225	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	16,659.00	7,678.61	49.53	161.70	85.14	1,781.78	1,470.67	777.94	622.26	155.67	4.997	
9,000.00	7,870.00	16,659.00	7,678.61	49.01	161.70	85.14	1,781.78	1,470.67	861.22	714.06	147.15	5.853	
9,100.00	7,870.00	16,659.00	7,678.61	48.52	161.70	85.14	1,781.78	1,470.67	947.73	807.91	139.83	6.778	
9,200.00	7,870.00	16,659.00	7,678.61	48.06	161.70	85.14	1,781.78	1,470.67	1,036.68	903.13	133.55	7.763	
9,300.00	7,870.00	16,659.00	7,678.61	47.63	161.70	85.14	1,781.78	1,470.67	1,127.48	999.32	128.16	8.797	
9,400.00	7,870.00	16,659.00	7,678.61	47.22	161.70	85.14	1,781.78	1,470.67	1,219.72	1,096.20	123.52	9.874	
9,500.00	7,870.00	16,659.00	7,678.61	46.83	161.70	85.14	1,781.78	1,470.67	1,313.10	1,193.59	119.51	10.987	
9,600.00	7,870.00	16,659.00	7,678.61	46.48	161.70	85.14	1,781.78	1,470.67	1,407.39	1,291.37	116.01	12.131	
9,700.00	7,870.00	16,659.00	7,678.61	46.14	161.70	85.14	1,781.78	1,470.67	1,502.42	1,389.46	112.96	13.301	
9,800.00	7,870.00	16,659.00	7,678.61	45.83	161.70	85.14	1,781.78	1,470.67	1,598.05	1,487.78	110.27	14.493	
9,900.00	7,870.00	16,659.00	7,678.61	45.54	161.70	85.14	1,781.78	1,470.67	1,694.19	1,586.30	107.89	15.703	
10,000.00	7,870.00	16,659.00	7,678.61	45.27	161.70	85.14	1,781.78	1,470.67	1,790.75	1,684.98	105.77	16.930	
10,100.00	7,870.00	16,659.00	7,678.61	45.03	161.70	85.14	1,781.78	1,470.67	1,887.67	1,783.78	103.88	18.171	
10,200.00	7,870.00	16,659.00	7,678.61	44.82	161.70	85.14	1,781.78	1,470.67	1,984.89	1,882.70	102.19	19.424	
10,300.00	7,870.00	16,659.00	7,678.61	44.66	161.70	85.14	1,781.78	1,470.67	2,082.38	1,981.72	100.66	20.686	
10,400.00	7,870.00	16,659.00	7,678.61	44.56	161.70	85.14	1,781.78	1,470.67	2,180.10	2,080.81	99.29	21.958	
10,500.00	7,870.00	16,659.00	7,678.61	44.58	161.70	85.14	1,781.78	1,470.67	2,278.01	2,179.97	98.03	23.237	
10,600.00	7,870.00	16,659.00	7,678.61	44.82	161.70	85.14	1,781.78	1,470.67	2,376.10	2,279.20	96.90	24.522	
10,700.00	7,870.00	16,659.00	7,678.61	45.36	161.70	85.14	1,781.78	1,470.67	2,474.34	2,378.48	95.86	25.813	
10,800.00	7,870.00	16,659.00	7,678.61	46.15	161.70	85.14	1,781.78	1,470.67	2,572.71	2,477.81	94.90	27.108	
10,900.00	7,870.00	16,659.00	7,678.61	47.09	161.70	85.14	1,781.78	1,470.67	2,671.21	2,577.18	94.03	28.408	
11,000.00	7,870.00	16,659.00	7,678.61	48.13	161.70	85.14	1,781.78	1,470.67	2,769.81	2,676.59	93.23	29.711	
11,100.00	7,870.00	16,659.00	7,678.61	49.22	161.70	85.14	1,781.78	1,470.67	2,868.51	2,776.03	92.48	31.017	
11,200.00	7,870.00	16,659.00	7,678.61	50.37	161.70	85.14	1,781.78	1,470.67	2,967.30	2,875.51	91.80	32.325	
11,300.00	7,870.00	16,659.00	7,678.61	51.55	161.70	85.14	1,781.78	1,470.67	3,066.17	2,975.01	91.16	33.635	
11,400.00	7,870.00	16,659.00	7,678.61	52.76	161.70	85.14	1,781.78	1,470.67	3,165.11	3,074.54	90.57	34.947	
11,500.00	7,870.00	16,659.00	7,678.61	54.00	161.70	85.14	1,781.78	1,470.67	3,264.11	3,174.09	90.02	36.261	
11,600.00	7,870.00	16,659.00	7,678.61	55.27	161.70	85.14	1,781.78	1,470.67	3,363.17	3,273.67	89.51	37.575	
11,700.00	7,870.00	16,659.00	7,678.61	56.56	161.70	85.14	1,781.78	1,470.67	3,462.29	3,373.26	89.03	38.891	
11,800.00	7,870.00	16,659.00	7,678.61	57.88	161.70	85.14	1,781.78	1,470.67	3,561.45	3,472.87	88.58	40.207	
11,900.00	7,870.00	16,659.00	7,678.61	59.21	161.70	85.14	1,781.78	1,470.67	3,660.66	3,572.50	88.16	41.523	
12,000.00	7,870.00	16,659.00	7,678.61	60.57	161.70	85.14	1,781.78	1,470.67	3,759.91	3,672.15	87.77	42.840	
12,100.00	7,870.00	16,659.00	7,678.61	61.94	161.70	85.14	1,781.78	1,470.67	3,859.20	3,771.81	87.40	44.156	
12,200.00	7,870.00	16,659.00	7,678.61	63.33	161.70	85.14	1,781.78	1,470.67	3,958.53	3,871.48	87.05	45.473	
12,300.00	7,870.00	16,659.00	7,678.61	64.74	161.70	85.14	1,781.78	1,470.67	4,057.89	3,971.16	86.73	46.790	
12,400.00	7,870.00	16,659.00	7,678.61	66.16	161.70	85.14	1,781.78	1,470.67	4,157.28	4,070.86	86.42	48.106	
12,500.00	7,870.00	16,659.00	7,678.61	67.59	161.70	85.14	1,781.78	1,470.67	4,256.70	4,170.57	86.13	49.422	
12,600.00	7,870.00	16,659.00	7,678.61	69.04	161.70	85.14	1,781.78	1,470.67	4,356.15	4,270.29	85.86	50.737	
12,700.00	7,870.00	16,659.00	7,678.61	70.51	161.70	85.14	1,781.78	1,470.67	4,455.62	4,370.02	85.60	52.052	
12,800.00	7,870.00	16,659.00	7,678.61	71.98	161.70	85.14	1,781.78	1,470.67	4,555.11	4,469.75	85.36	53.366	
12,900.00	7,870.00	16,659.00	7,678.61	73.47	161.70	85.14	1,781.78	1,470.67	4,654.62	4,569.50	85.13	54.680	
13,000.00	7,870.00	16,659.00	7,678.61	74.96	161.70	85.14	1,781.78	1,470.67	4,754.16	4,669.25	84.91	55.992	
13,100.00	7,870.00	16,659.00	7,678.61	76.47	161.70	85.14	1,781.78	1,470.67	4,853.72	4,769.01	84.70	57.304	
13,200.00	7,870.00	16,659.00	7,678.61	77.99	161.70	85.14	1,781.78	1,470.67	4,953.29	4,868.78	84.51	58.615	
13,300.00	7,870.00	16,659.00	7,678.61	79.51	161.70	85.14	1,781.78	1,470.67	5,052.88	4,968.56	84.32	59.924	
13,400.00	7,870.00	16,659.00	7,678.61	81.05	161.70	85.14	1,781.78	1,470.67	5,152.48	5,068.34	84.15	61.233	
13,500.00	7,870.00	16,659.00	7,678.61	82.59	161.70	85.14	1,781.78	1,470.67	5,252.10	5,168.12	83.98	62.541	
13,600.00	7,870.00	16,659.00	7,678.61	84.14	161.70	85.14	1,781.78	1,470.67	5,351.74	5,267.92	83.82	63.847	
13,700.00	7,870.00	16,659.00	7,678.61	85.70	161.70	85.14	1,781.78	1,470.67	5,451.39	5,367.71	83.67	65.152	
13,800.00	7,870.00	16,659.00	7,678.61	87.26	161.70	85.14	1,781.78	1,470.67	5,551.05	5,467.52	83.53	66.456	
13,900.00	7,870.00	16,659.00	7,678.61	88.83	161.70	85.14	1,781.78	1,470.67	5,650.72	5,567.32	83.39	67.759	
14,000.00	7,870.00	16,659.00	7,678.61	90.41	161.70	85.14	1,781.78	1,470.67	5,750.40	5,667.14	83.27	69.060	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	16,659.00	7,678.61	92.00	161.70	85.14	1,781.78	1,470.67	5,850.10	5,766.95	83.15	70.360	
14,200.00	7,870.00	16,659.00	7,678.61	93.59	161.70	85.14	1,781.78	1,470.67	5,949.80	5,866.77	83.03	71.658	
14,300.00	7,870.00	16,659.00	7,678.61	95.18	161.70	85.14	1,781.78	1,470.67	6,049.52	5,966.60	82.92	72.955	
14,400.00	7,870.00	16,659.00	7,678.61	96.79	161.70	85.14	1,781.78	1,470.67	6,149.24	6,066.42	82.82	74.251	
14,500.00	7,870.00	16,659.00	7,678.61	98.39	161.70	85.14	1,781.78	1,470.67	6,248.97	6,166.25	82.72	75.545	
14,600.00	7,870.00	16,659.00	7,678.61	100.00	161.70	85.14	1,781.78	1,470.67	6,348.71	6,266.09	82.63	76.837	
14,700.00	7,870.00	16,659.00	7,678.61	101.62	161.70	85.14	1,781.78	1,470.67	6,448.46	6,365.93	82.54	78.127	
14,800.00	7,870.00	16,659.00	7,678.61	103.24	161.70	85.14	1,781.78	1,470.67	6,548.22	6,465.77	82.45	79.417	
14,900.00	7,870.00	16,659.00	7,678.61	104.87	161.70	85.14	1,781.78	1,470.67	6,647.99	6,565.61	82.38	80.704	
15,000.00	7,870.00	16,659.00	7,678.61	106.50	161.70	85.14	1,781.78	1,470.67	6,747.76	6,665.46	82.30	81.990	
15,100.00	7,870.00	16,659.00	7,678.61	108.13	161.70	85.14	1,781.78	1,470.67	6,847.53	6,765.30	82.23	83.273	
15,200.00	7,870.00	16,659.00	7,678.61	109.77	161.70	85.14	1,781.78	1,470.67	6,947.32	6,865.16	82.16	84.556	
15,300.00	7,870.00	16,659.00	7,678.61	111.41	161.70	85.14	1,781.78	1,470.67	7,047.11	6,965.01	82.10	85.836	
15,400.00	7,870.00	16,659.00	7,678.61	113.05	161.70	85.14	1,781.78	1,470.67	7,146.90	7,064.86	82.04	87.114	
15,500.00	7,870.00	16,659.00	7,678.61	114.70	161.70	85.14	1,781.78	1,470.67	7,246.71	7,164.72	81.98	88.391	
15,600.00	7,870.00	16,659.00	7,678.61	116.35	161.70	85.14	1,781.78	1,470.67	7,346.51	7,264.58	81.93	89.666	
15,700.00	7,870.00	16,659.00	7,678.61	118.00	161.70	85.14	1,781.78	1,470.67	7,446.33	7,364.44	81.88	90.939	
15,800.00	7,870.00	16,659.00	7,678.61	119.66	161.70	85.14	1,781.78	1,470.67	7,546.14	7,464.31	81.84	92.210	
15,900.00	7,870.00	16,659.00	7,678.61	121.32	161.70	85.14	1,781.78	1,470.67	7,645.97	7,564.17	81.79	93.478	
16,000.00	7,870.00	16,659.00	7,678.61	122.98	161.70	85.14	1,781.78	1,470.67	7,745.79	7,664.04	81.75	94.745	
16,100.00	7,870.00	16,659.00	7,678.61	124.65	161.70	85.14	1,781.78	1,470.67	7,845.62	7,763.91	81.72	96.010	
16,200.00	7,870.00	16,659.00	7,678.61	126.32	161.70	85.14	1,781.78	1,470.67	7,945.46	7,863.78	81.68	97.273	
16,300.00	7,870.00	16,659.00	7,678.61	127.99	161.70	85.14	1,781.78	1,470.67	8,045.30	7,963.65	81.65	98.534	
16,400.00	7,870.00	16,659.00	7,678.61	129.66	161.70	85.14	1,781.78	1,470.67	8,145.14	8,063.52	81.62	99.793	
16,500.00	7,870.00	16,659.00	7,678.61	131.33	161.70	85.14	1,781.78	1,470.67	8,244.99	8,163.40	81.59	101.049	
16,600.00	7,870.00	16,659.00	7,678.61	133.01	161.70	85.14	1,781.78	1,470.67	8,344.84	8,263.27	81.57	102.304	
16,700.00	7,870.00	16,659.00	7,678.61	134.69	161.70	85.14	1,781.78	1,470.67	8,444.69	8,363.15	81.55	103.556	
16,800.00	7,870.00	16,659.00	7,678.61	136.37	161.70	85.14	1,781.78	1,470.67	8,544.55	8,463.02	81.53	104.806	
16,900.00	7,870.00	16,659.00	7,678.61	138.06	161.70	85.14	1,781.78	1,470.67	8,644.41	8,562.90	81.51	106.054	
17,000.00	7,870.00	16,659.00	7,678.61	139.74	161.70	85.14	1,781.78	1,470.67	8,744.28	8,662.78	81.49	107.299	
17,100.00	7,870.00	16,659.00	7,678.61	141.43	161.70	85.14	1,781.78	1,470.67	8,844.14	8,762.66	81.48	108.543	
17,200.00	7,870.00	16,659.00	7,678.61	143.12	161.70	85.14	1,781.78	1,470.67	8,944.02	8,862.55	81.47	109.784	
17,300.00	7,870.00	16,659.00	7,678.61	144.81	161.70	85.14	1,781.78	1,470.67	9,043.89	8,962.43	81.46	111.023	
17,400.00	7,870.00	16,659.00	7,678.61	146.50	161.70	85.14	1,781.78	1,470.67	9,143.76	9,062.31	81.45	112.259	
17,500.00	7,870.00	16,659.00	7,678.61	148.19	161.70	85.14	1,781.78	1,470.67	9,243.64	9,162.20	81.45	113.493	
17,600.00	7,870.00	16,659.00	7,678.61	149.89	161.70	85.14	1,781.78	1,470.67	9,343.52	9,262.08	81.44	114.725	
17,700.00	7,870.00	16,659.00	7,678.61	151.59	161.70	85.14	1,781.78	1,470.67	9,443.41	9,361.97	81.44	115.955	
17,800.00	7,870.00	16,659.00	7,678.61	153.29	161.70	85.14	1,781.78	1,470.67	9,543.29	9,461.85	81.44	117.182	
17,900.00	7,870.00	16,659.00	7,678.61	154.99	161.70	85.14	1,781.78	1,470.67	9,643.18	9,561.74	81.44	118.406	
18,000.00	7,870.00	16,659.00	7,678.61	156.69	161.70	85.14	1,781.78	1,470.67	9,743.07	9,661.63	81.44	119.628	
18,100.00	7,870.00	16,659.00	7,678.61	158.39	161.70	85.14	1,781.78	1,470.67	9,842.97	9,761.52	81.45	120.848	
18,200.00	7,870.00	16,659.00	7,678.61	160.09	161.70	85.14	1,781.78	1,470.67	9,942.86	9,861.41	81.46	122.065	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16,530.00	7,789.95	0.00	159.85	43.26	1,779.44	1,674.66	8,310.32				
100.00	100.00	16,530.00	7,789.95	0.13	159.85	43.26	1,779.44	1,674.66	8,214.79	8,137.18	77.62	105.838	
200.00	200.00	16,530.00	7,789.95	0.49	159.85	43.26	1,779.44	1,674.66	8,119.37	8,041.66	77.72	104.476	
300.00	300.00	16,530.00	7,789.95	0.85	159.85	43.26	1,779.44	1,674.66	8,024.07	7,946.24	77.83	103.100	
400.00	400.00	16,530.00	7,789.95	1.21	159.85	43.26	1,779.44	1,674.66	7,928.88	7,850.92	77.95	101.713	
500.00	500.00	16,530.00	7,789.95	1.57	159.85	43.26	1,779.44	1,674.66	7,833.80	7,755.71	78.09	100.314	
600.00	600.00	16,530.00	7,789.95	1.93	159.85	43.26	1,779.44	1,674.66	7,738.86	7,660.61	78.25	98.904	
700.00	700.00	16,530.00	7,789.95	2.29	159.85	43.26	1,779.44	1,674.66	7,644.04	7,565.62	78.41	97.484	
800.00	800.00	16,530.00	7,789.95	2.64	159.85	43.26	1,779.44	1,674.66	7,549.35	7,470.76	78.59	96.056	
900.00	900.00	16,530.00	7,789.95	3.00	159.85	43.26	1,779.44	1,674.66	7,454.80	7,376.02	78.79	94.620	
1,000.00	1,000.00	16,530.00	7,789.95	3.36	159.85	43.26	1,779.44	1,674.66	7,360.40	7,281.41	78.99	93.177	
1,100.00	1,100.00	16,530.00	7,789.95	3.72	159.85	43.26	1,779.44	1,674.66	7,266.15	7,186.94	79.21	91.730	
1,200.00	1,200.00	16,530.00	7,789.95	4.08	159.85	43.26	1,779.44	1,674.66	7,172.05	7,092.61	79.44	90.277	
1,300.00	1,300.00	16,530.00	7,789.95	4.44	159.85	43.26	1,779.44	1,674.66	7,078.12	6,998.43	79.69	88.821	
1,400.00	1,399.98	16,530.00	7,789.95	4.79	159.85	0.35	1,779.44	1,674.66	6,983.76	6,903.81	79.95	87.356	
1,500.00	1,499.84	16,530.00	7,789.95	5.15	159.85	0.39	1,779.44	1,674.66	6,888.44	6,808.24	80.20	85.889	
1,600.00	1,599.45	16,530.00	7,789.95	5.51	159.85	0.45	1,779.44	1,674.66	6,792.24	6,711.79	80.44	84.434	
1,700.00	1,698.70	16,530.00	7,789.95	5.87	159.85	0.51	1,779.44	1,674.66	6,695.23	6,614.56	80.67	82.991	
1,800.00	1,797.47	16,530.00	7,789.95	6.24	159.85	0.60	1,779.44	1,674.66	6,597.51	6,516.62	80.89	81.564	
1,900.00	1,895.62	16,530.00	7,789.95	6.63	159.85	0.73	1,779.44	1,674.66	6,499.16	6,418.08	81.08	80.153	
2,000.00	1,993.06	16,530.00	7,789.95	7.04	159.85	0.92	1,779.44	1,674.66	6,400.28	6,319.02	81.26	78.760	
2,100.00	2,089.64	16,530.00	7,789.95	7.48	159.85	1.24	1,779.44	1,674.66	6,300.96	6,219.54	81.42	77.386	
2,200.00	2,185.27	16,530.00	7,789.95	7.94	159.85	1.90	1,779.44	1,674.66	6,201.31	6,119.75	81.56	76.033	
2,300.00	2,279.82	16,530.00	7,789.95	8.45	159.85	3.96	1,779.44	1,674.66	6,101.44	6,019.76	81.68	74.702	
2,400.00	2,373.17	16,530.00	7,789.95	8.99	159.85	136.43	1,779.44	1,674.66	6,001.46	5,919.69	81.77	73.393	
2,500.00	2,465.21	16,530.00	7,789.95	9.58	159.85	176.49	1,779.44	1,674.66	5,901.48	5,819.64	81.84	72.109	
2,574.08	2,532.50	16,530.00	7,789.95	10.04	159.85	177.91	1,779.44	1,674.66	5,827.50	5,745.62	81.88	71.174	
2,600.00	2,555.89	16,530.00	7,789.95	10.21	159.85	177.91	1,779.44	1,674.66	5,801.63	5,719.75	81.89	70.849	
2,700.00	2,646.16	16,530.00	7,789.95	10.88	159.85	177.91	1,779.44	1,674.66	5,701.85	5,619.91	81.93	69.593	
2,800.00	2,736.44	16,530.00	7,789.95	11.57	159.85	177.91	1,779.44	1,674.66	5,602.06	5,520.09	81.98	68.337	
2,900.00	2,826.71	16,530.00	7,789.95	12.27	159.85	177.91	1,779.44	1,674.66	5,502.29	5,420.27	82.03	67.080	
3,000.00	2,916.98	16,530.00	7,789.95	13.00	159.85	177.91	1,779.44	1,674.66	5,402.53	5,320.45	82.08	65.823	
3,100.00	3,007.25	16,530.00	7,789.95	13.73	159.85	177.91	1,779.44	1,674.66	5,302.77	5,220.64	82.13	64.566	
3,200.00	3,097.52	16,530.00	7,789.95	14.48	159.85	177.91	1,779.44	1,674.66	5,203.02	5,120.84	82.18	63.309	
3,300.00	3,187.80	16,530.00	7,789.95	15.23	159.85	177.91	1,779.44	1,674.66	5,103.29	5,021.05	82.24	62.052	
3,400.00	3,278.07	16,530.00	7,789.95	15.99	159.85	177.91	1,779.44	1,674.66	5,003.56	4,921.26	82.30	60.796	
3,500.00	3,368.34	16,530.00	7,789.95	16.76	159.85	177.91	1,779.44	1,674.66	4,903.85	4,821.48	82.36	59.541	
3,600.00	3,458.61	16,530.00	7,789.95	17.54	159.85	177.91	1,779.44	1,674.66	4,804.14	4,721.72	82.42	58.286	
3,700.00	3,548.89	16,530.00	7,789.95	18.32	159.85	177.91	1,779.44	1,674.66	4,704.45	4,621.96	82.49	57.032	
3,800.00	3,639.16	16,530.00	7,789.95	19.10	159.85	177.91	1,779.44	1,674.66	4,604.77	4,522.22	82.55	55.779	
3,900.00	3,729.43	16,530.00	7,789.95	19.89	159.85	177.91	1,779.44	1,674.66	4,505.11	4,422.49	82.62	54.527	
4,000.00	3,819.70	16,530.00	7,789.95	20.69	159.85	177.91	1,779.44	1,674.66	4,405.46	4,322.77	82.69	53.277	
4,100.00	3,909.98	16,530.00	7,789.95	21.48	159.85	177.91	1,779.44	1,674.66	4,305.83	4,223.07	82.76	52.028	
4,200.00	4,000.25	16,530.00	7,789.95	22.28	159.85	177.91	1,779.44	1,674.66	4,206.22	4,123.39	82.83	50.780	
4,300.00	4,090.52	16,530.00	7,789.95	23.08	159.85	177.91	1,779.44	1,674.66	4,106.62	4,023.72	82.90	49.535	
4,400.00	4,180.79	16,530.00	7,789.95	23.88	159.85	177.91	1,779.44	1,674.66	4,007.05	3,924.07	82.98	48.291	
4,500.00	4,271.06	16,530.00	7,789.95	24.69	159.85	177.91	1,779.44	1,674.66	3,907.50	3,824.45	83.05	47.049	
4,600.00	4,361.34	16,530.00	7,789.95	25.49	159.85	177.91	1,779.44	1,674.66	3,807.97	3,724.84	83.13	45.810	
4,700.00	4,451.61	16,530.00	7,789.95	26.30	159.85	177.91	1,779.44	1,674.66	3,708.46	3,625.26	83.20	44.572	
4,800.00	4,541.88	16,530.00	7,789.95	27.11	159.85	177.91	1,779.44	1,674.66	3,608.99	3,525.71	83.28	43.337	
4,900.00	4,632.15	16,530.00	7,789.95	27.92	159.85	177.91	1,779.44	1,674.66	3,509.54	3,426.19	83.35	42.105	
5,000.00	4,722.43	16,530.00	7,789.95	28.74	159.85	177.91	1,779.44	1,674.66	3,410.12	3,326.70	83.43	40.875	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 25-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	16,530.00	7,789.95	29.55	159.85	177.91	1,779.44	1,674.66	3,310.74	3,227.24	83.50	39.648	
5,200.00	4,902.97	16,530.00	7,789.95	30.37	159.85	177.91	1,779.44	1,674.66	3,211.40	3,127.82	83.58	38.424	
5,300.00	4,993.24	16,530.00	7,789.95	31.18	159.85	177.91	1,779.44	1,674.66	3,112.10	3,028.45	83.65	37.202	
5,400.00	5,083.51	16,530.00	7,789.95	32.00	159.85	177.91	1,779.44	1,674.66	3,012.85	2,929.12	83.73	35.984	
5,500.00	5,173.79	16,530.00	7,789.95	32.82	159.85	177.91	1,779.44	1,674.66	2,913.65	2,829.85	83.80	34.768	
5,600.00	5,264.06	16,530.00	7,789.95	33.63	159.85	177.91	1,779.44	1,674.66	2,814.51	2,730.63	83.88	33.556	
5,700.00	5,354.33	16,530.00	7,789.95	34.45	159.85	177.91	1,779.44	1,674.66	2,715.42	2,631.48	83.95	32.347	
5,800.00	5,444.60	16,530.00	7,789.95	35.27	159.85	177.91	1,779.44	1,674.66	2,616.41	2,532.39	84.02	31.141	
5,900.00	5,534.88	16,530.00	7,789.95	36.09	159.85	177.91	1,779.44	1,674.66	2,517.48	2,433.39	84.09	29.939	
6,000.00	5,625.15	16,530.00	7,789.95	36.91	159.85	177.91	1,779.44	1,674.66	2,418.63	2,334.48	84.15	28.740	
6,100.00	5,715.42	16,530.00	7,789.95	37.74	159.85	177.91	1,779.44	1,674.66	2,319.88	2,235.66	84.22	27.545	
6,200.00	5,805.69	16,530.00	7,789.95	38.56	159.85	177.91	1,779.44	1,674.66	2,221.25	2,136.96	84.29	26.354	
6,300.00	5,895.96	16,530.00	7,789.95	39.38	159.85	177.91	1,779.44	1,674.66	2,122.74	2,038.39	84.35	25.166	
6,400.00	5,986.24	16,530.00	7,789.95	40.20	159.85	177.91	1,779.44	1,674.66	2,024.38	1,939.96	84.41	23.981	
6,500.00	6,076.51	16,530.00	7,789.95	41.03	159.85	177.91	1,779.44	1,674.66	1,926.19	1,841.71	84.48	22.801	
6,600.00	6,166.78	16,530.00	7,789.95	41.85	159.85	177.91	1,779.44	1,674.66	1,828.19	1,743.64	84.55	21.624	
6,700.00	6,257.05	16,530.00	7,789.95	42.67	159.85	177.91	1,779.44	1,674.66	1,730.42	1,645.81	84.62	20.450	
6,800.00	6,347.33	16,530.00	7,789.95	43.50	159.85	177.91	1,779.44	1,674.66	1,632.92	1,548.23	84.69	19.281	
6,900.00	6,437.60	16,530.00	7,789.95	44.32	159.85	177.91	1,779.44	1,674.66	1,535.75	1,450.97	84.78	18.115	
7,000.00	6,527.87	16,530.00	7,789.95	45.15	159.85	177.91	1,779.44	1,674.66	1,438.96	1,354.08	84.88	16.952	
7,100.00	6,618.14	16,530.00	7,789.95	45.98	159.85	177.91	1,779.44	1,674.66	1,342.64	1,257.63	85.02	15.793	
7,200.00	6,708.41	16,530.00	7,789.95	46.80	159.85	177.91	1,779.44	1,674.66	1,246.91	1,161.72	85.19	14.637	
7,300.00	6,798.69	16,530.00	7,789.95	47.63	159.85	177.91	1,779.44	1,674.66	1,151.89	1,066.47	85.43	13.484	
7,400.00	6,888.96	16,530.00	7,789.95	48.45	159.85	177.91	1,779.44	1,674.66	1,057.80	972.04	85.76	12.335	
7,500.00	6,979.23	16,530.00	7,789.95	49.28	159.85	177.91	1,779.44	1,674.66	964.90	878.66	86.24	11.189	
7,600.00	7,069.50	16,530.00	7,789.95	50.11	159.85	177.91	1,779.44	1,674.66	873.56	786.61	86.95	10.047	
7,692.09	7,152.63	16,520.05	7,790.28	50.87	159.68	178.98	1,789.38	1,674.26	791.24	703.56	87.68	9.024	
7,700.00	7,159.79	16,517.48	7,790.36	50.93	159.63	179.13	1,791.95	1,674.16	784.22	696.50	87.72	8.940	
7,750.00	7,205.70	16,503.60	7,790.82	51.32	159.39	179.82	1,805.80	1,673.60	739.31	651.18	88.13	8.388	
7,800.00	7,252.52	16,493.97	7,791.13	51.66	159.22	179.36	1,815.43	1,673.21	693.79	604.95	88.84	7.809	
7,850.00	7,299.89	16,490.24	7,791.23	51.96	159.16	176.60	1,819.15	1,673.06	648.07	558.11	89.96	7.204	
7,900.00	7,347.44	16,489.01	7,791.28	52.20	159.14	172.29	1,820.38	1,673.01	602.66	511.09	91.57	6.582	
7,950.00	7,394.83	16,492.63	7,791.15	52.39	159.20	167.07	1,816.77	1,673.16	558.00	464.15	93.85	5.946	
8,000.00	7,441.68	16,498.70	7,790.98	52.53	159.30	162.49	1,810.70	1,673.40	514.64	417.66	96.99	5.306	
8,050.00	7,487.65	16,510.67	7,790.58	52.62	159.51	158.17	1,798.75	1,673.88	473.04	371.85	101.19	4.675	
8,100.00	7,532.37	16,526.81	7,790.06	52.67	159.79	154.31	1,782.63	1,674.53	433.73	327.08	106.65	4.067	
8,150.00	7,575.52	16,530.00	7,789.95	52.67	159.85	153.26	1,779.44	1,674.66	397.62	283.59	114.03	3.487	
8,200.00	7,616.76	16,530.00	7,789.95	52.63	159.85	152.75	1,779.44	1,674.66	366.43	243.07	123.36	2.970	
8,250.00	7,655.77	16,530.00	7,789.95	52.55	159.85	152.06	1,779.44	1,674.66	341.78	207.68	134.10	2.549	
8,300.00	7,692.27	16,530.00	7,789.95	52.44	159.85	151.08	1,779.44	1,674.66	325.38	180.37	145.02	2.244	
8,350.00	7,725.97	16,530.00	7,789.95	52.29	159.85	149.72	1,779.44	1,674.66	318.64	164.34	154.30	2.065	
8,357.78	7,730.95	16,530.00	7,789.95	52.27	159.85	149.48	1,779.44	1,674.66	318.51	163.03	155.48	2.049	CC
8,400.00	7,756.62	16,530.00	7,789.95	52.12	159.85	147.92	1,779.44	1,674.66	322.20	161.89	160.31	2.010	ES, SF
8,450.00	7,783.98	16,530.00	7,789.95	51.92	159.85	145.56	1,779.44	1,674.66	335.72	173.34	162.38	2.068	
8,500.00	7,807.85	16,530.00	7,789.95	51.70	159.85	142.52	1,779.44	1,674.66	357.98	196.98	161.00	2.223	
8,550.00	7,828.05	16,530.00	7,789.95	51.45	159.85	138.66	1,779.44	1,674.66	387.32	230.06	157.26	2.463	
8,600.00	7,844.41	16,530.00	7,789.95	51.20	159.85	133.78	1,779.44	1,674.66	422.07	269.85	152.22	2.773	
8,650.00	7,856.82	16,530.00	7,789.95	50.93	159.85	127.69	1,779.44	1,674.66	460.77	314.12	146.65	3.142	
8,700.00	7,865.18	16,530.00	7,789.95	50.65	159.85	120.25	1,779.44	1,674.66	502.26	361.24	141.03	3.561	
8,750.00	7,869.43	16,530.00	7,789.95	50.36	159.85	111.49	1,779.44	1,674.66	545.63	410.05	135.58	4.024	
8,776.25	7,870.00	16,530.00	7,789.95	50.21	159.85	106.44	1,779.44	1,674.66	568.90	436.07	132.83	4.283	
8,800.00	7,870.00	16,530.00	7,789.95	50.08	159.85	106.44	1,779.44	1,674.66	590.17	459.71	130.46	4.524	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	16,530.00	7,789.95	49.53	159.85	106.44	1,779.44	1,674.66	681.53	559.55	121.97	5.588	
9,000.00	7,870.00	16,530.00	7,789.95	49.01	159.85	106.44	1,779.44	1,674.66	775.02	659.62	115.40	6.716	
9,100.00	7,870.00	16,530.00	7,789.95	48.52	159.85	106.44	1,779.44	1,674.66	869.97	759.74	110.23	7.893	
9,200.00	7,870.00	16,530.00	7,789.95	48.06	159.85	106.44	1,779.44	1,674.66	965.93	859.84	106.09	9.105	
9,300.00	7,870.00	16,530.00	7,789.95	47.63	159.85	106.44	1,779.44	1,674.66	1,062.64	959.92	102.72	10.345	
9,400.00	7,870.00	16,530.00	7,789.95	47.22	159.85	106.44	1,779.44	1,674.66	1,159.91	1,059.96	99.94	11.606	
9,500.00	7,870.00	16,530.00	7,789.95	46.83	159.85	106.44	1,779.44	1,674.66	1,257.60	1,159.98	97.62	12.882	
9,600.00	7,870.00	16,530.00	7,789.95	46.48	159.85	106.44	1,779.44	1,674.66	1,355.63	1,259.97	95.67	14.171	
9,700.00	7,870.00	16,530.00	7,789.95	46.14	159.85	106.44	1,779.44	1,674.66	1,453.93	1,359.94	93.99	15.468	
9,800.00	7,870.00	16,530.00	7,789.95	45.83	159.85	106.44	1,779.44	1,674.66	1,552.45	1,459.90	92.55	16.773	
9,900.00	7,870.00	16,530.00	7,789.95	45.54	159.85	106.44	1,779.44	1,674.66	1,651.15	1,559.84	91.30	18.084	
10,000.00	7,870.00	16,530.00	7,789.95	45.27	159.85	106.44	1,779.44	1,674.66	1,749.99	1,659.78	90.21	19.399	
10,100.00	7,870.00	16,530.00	7,789.95	45.03	159.85	106.44	1,779.44	1,674.66	1,848.96	1,759.71	89.25	20.717	
10,200.00	7,870.00	16,530.00	7,789.95	44.82	159.85	106.44	1,779.44	1,674.66	1,948.03	1,859.64	88.39	22.038	
10,300.00	7,870.00	16,530.00	7,789.95	44.66	159.85	106.44	1,779.44	1,674.66	2,047.19	1,959.56	87.63	23.361	
10,400.00	7,870.00	16,530.00	7,789.95	44.56	159.85	106.44	1,779.44	1,674.66	2,146.44	2,059.48	86.95	24.685	
10,500.00	7,870.00	16,530.00	7,789.95	44.58	159.85	106.44	1,779.44	1,674.66	2,245.74	2,159.40	86.34	26.010	
10,600.00	7,870.00	16,530.00	7,789.95	44.82	159.85	106.44	1,779.44	1,674.66	2,345.11	2,259.32	85.79	27.336	
10,700.00	7,870.00	16,530.00	7,789.95	45.36	159.85	106.44	1,779.44	1,674.66	2,444.53	2,359.24	85.29	28.662	
10,800.00	7,870.00	16,530.00	7,789.95	46.15	159.85	106.44	1,779.44	1,674.66	2,543.99	2,459.16	84.83	29.988	
10,900.00	7,870.00	16,530.00	7,789.95	47.09	159.85	106.44	1,779.44	1,674.66	2,643.50	2,559.08	84.42	31.315	
11,000.00	7,870.00	16,530.00	7,789.95	48.13	159.85	106.44	1,779.44	1,674.66	2,743.04	2,659.00	84.04	32.641	
11,100.00	7,870.00	16,530.00	7,789.95	49.22	159.85	106.44	1,779.44	1,674.66	2,842.61	2,758.93	83.69	33.967	
11,200.00	7,870.00	16,530.00	7,789.95	50.37	159.85	106.44	1,779.44	1,674.66	2,942.22	2,858.85	83.37	35.293	
11,300.00	7,870.00	16,530.00	7,789.95	51.55	159.85	106.44	1,779.44	1,674.66	3,041.84	2,958.77	83.07	36.618	
11,400.00	7,870.00	16,530.00	7,789.95	52.76	159.85	106.44	1,779.44	1,674.66	3,141.50	3,058.70	82.80	37.943	
11,500.00	7,870.00	16,530.00	7,789.95	54.00	159.85	106.44	1,779.44	1,674.66	3,241.17	3,158.63	82.54	39.267	
11,600.00	7,870.00	16,530.00	7,789.95	55.27	159.85	106.44	1,779.44	1,674.66	3,340.86	3,258.55	82.31	40.590	
11,700.00	7,870.00	16,530.00	7,789.95	56.56	159.85	106.44	1,779.44	1,674.66	3,440.57	3,358.48	82.09	41.913	
11,800.00	7,870.00	16,530.00	7,789.95	57.88	159.85	106.44	1,779.44	1,674.66	3,540.30	3,458.41	81.88	43.235	
11,900.00	7,870.00	16,530.00	7,789.95	59.21	159.85	106.44	1,779.44	1,674.66	3,640.04	3,558.35	81.70	44.556	
12,000.00	7,870.00	16,530.00	7,789.95	60.57	159.85	106.44	1,779.44	1,674.66	3,739.80	3,658.28	81.52	45.877	
12,100.00	7,870.00	16,530.00	7,789.95	61.94	159.85	106.44	1,779.44	1,674.66	3,839.56	3,758.21	81.35	47.196	
12,200.00	7,870.00	16,530.00	7,789.95	63.33	159.85	106.44	1,779.44	1,674.66	3,939.34	3,858.15	81.20	48.515	
12,300.00	7,870.00	16,530.00	7,789.95	64.74	159.85	106.44	1,779.44	1,674.66	4,039.14	3,958.08	81.05	49.832	
12,400.00	7,870.00	16,530.00	7,789.95	66.16	159.85	106.44	1,779.44	1,674.66	4,138.94	4,058.02	80.92	51.149	
12,500.00	7,870.00	16,530.00	7,789.95	67.59	159.85	106.44	1,779.44	1,674.66	4,238.75	4,157.95	80.79	52.464	
12,600.00	7,870.00	16,530.00	7,789.95	69.04	159.85	106.44	1,779.44	1,674.66	4,338.57	4,257.89	80.68	53.778	
12,700.00	7,870.00	16,530.00	7,789.95	70.51	159.85	106.44	1,779.44	1,674.66	4,438.39	4,357.83	80.56	55.092	
12,800.00	7,870.00	16,530.00	7,789.95	71.98	159.85	106.44	1,779.44	1,674.66	4,538.23	4,457.77	80.46	56.404	
12,900.00	7,870.00	16,530.00	7,789.95	73.47	159.85	106.44	1,779.44	1,674.66	4,638.07	4,557.71	80.36	57.715	
13,000.00	7,870.00	16,530.00	7,789.95	74.96	159.85	106.44	1,779.44	1,674.66	4,737.92	4,657.65	80.27	59.024	
13,100.00	7,870.00	16,530.00	7,789.95	76.47	159.85	106.44	1,779.44	1,674.66	4,837.77	4,757.59	80.18	60.333	
13,200.00	7,870.00	16,530.00	7,789.95	77.99	159.85	106.44	1,779.44	1,674.66	4,937.64	4,857.53	80.10	61.640	
13,300.00	7,870.00	16,530.00	7,789.95	79.51	159.85	106.44	1,779.44	1,674.66	5,037.50	4,957.47	80.03	62.946	
13,400.00	7,870.00	16,530.00	7,789.95	81.05	159.85	106.44	1,779.44	1,674.66	5,137.37	5,057.42	79.96	64.251	
13,500.00	7,870.00	16,530.00	7,789.95	82.59	159.85	106.44	1,779.44	1,674.66	5,237.25	5,157.36	79.89	65.554	
13,600.00	7,870.00	16,530.00	7,789.95	84.14	159.85	106.44	1,779.44	1,674.66	5,337.13	5,257.30	79.83	66.856	
13,700.00	7,870.00	16,530.00	7,789.95	85.70	159.85	106.44	1,779.44	1,674.66	5,437.02	5,357.24	79.77	68.157	
13,800.00	7,870.00	16,530.00	7,789.95	87.26	159.85	106.44	1,779.44	1,674.66	5,536.91	5,457.19	79.72	69.456	
13,900.00	7,870.00	16,530.00	7,789.95	88.83	159.85	106.44	1,779.44	1,674.66	5,636.80	5,557.13	79.67	70.753	
14,000.00	7,870.00	16,530.00	7,789.95	90.41	159.85	106.44	1,779.44	1,674.66	5,736.70	5,657.08	79.62	72.050	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	16,530.00	7,789.95	92.00	159.85	106.44	1,779.44	1,674.66	5,836.60	5,757.02	79.58	73.344	
14,200.00	7,870.00	16,530.00	7,789.95	93.59	159.85	106.44	1,779.44	1,674.66	5,936.50	5,856.96	79.54	74.637	
14,300.00	7,870.00	16,530.00	7,789.95	95.18	159.85	106.44	1,779.44	1,674.66	6,036.41	5,956.91	79.50	75.929	
14,400.00	7,870.00	16,530.00	7,789.95	96.79	159.85	106.44	1,779.44	1,674.66	6,136.32	6,056.85	79.47	77.219	
14,500.00	7,870.00	16,530.00	7,789.95	98.39	159.85	106.44	1,779.44	1,674.66	6,236.23	6,156.80	79.43	78.507	
14,600.00	7,870.00	16,530.00	7,789.95	100.00	159.85	106.44	1,779.44	1,674.66	6,336.15	6,256.74	79.41	79.794	
14,700.00	7,870.00	16,530.00	7,789.95	101.62	159.85	106.44	1,779.44	1,674.66	6,436.07	6,356.69	79.38	81.079	
14,800.00	7,870.00	16,530.00	7,789.95	103.24	159.85	106.44	1,779.44	1,674.66	6,535.99	6,456.63	79.36	82.363	
14,900.00	7,870.00	16,530.00	7,789.95	104.87	159.85	106.44	1,779.44	1,674.66	6,635.91	6,556.58	79.33	83.645	
15,000.00	7,870.00	16,530.00	7,789.95	106.50	159.85	106.44	1,779.44	1,674.66	6,735.84	6,656.52	79.32	84.925	
15,100.00	7,870.00	16,530.00	7,789.95	108.13	159.85	106.44	1,779.44	1,674.66	6,835.76	6,756.47	79.30	86.203	
15,200.00	7,870.00	16,530.00	7,789.95	109.77	159.85	106.44	1,779.44	1,674.66	6,935.69	6,856.41	79.28	87.479	
15,300.00	7,870.00	16,530.00	7,789.95	111.41	159.85	106.44	1,779.44	1,674.66	7,035.63	6,956.36	79.27	88.754	
15,400.00	7,870.00	16,530.00	7,789.95	113.05	159.85	106.44	1,779.44	1,674.66	7,135.56	7,056.30	79.26	90.027	
15,500.00	7,870.00	16,530.00	7,789.95	114.70	159.85	106.44	1,779.44	1,674.66	7,235.50	7,156.24	79.25	91.298	
15,600.00	7,870.00	16,530.00	7,789.95	116.35	159.85	106.44	1,779.44	1,674.66	7,335.43	7,256.19	79.24	92.567	
15,700.00	7,870.00	16,530.00	7,789.95	118.00	159.85	106.44	1,779.44	1,674.66	7,435.37	7,356.13	79.24	93.834	
15,800.00	7,870.00	16,530.00	7,789.95	119.66	159.85	106.44	1,779.44	1,674.66	7,535.31	7,456.08	79.24	95.100	
15,900.00	7,870.00	16,530.00	7,789.95	121.32	159.85	106.44	1,779.44	1,674.66	7,635.26	7,556.02	79.23	96.363	
16,000.00	7,870.00	16,530.00	7,789.95	122.98	159.85	106.44	1,779.44	1,674.66	7,735.20	7,655.96	79.23	97.624	
16,100.00	7,870.00	16,530.00	7,789.95	124.65	159.85	106.44	1,779.44	1,674.66	7,835.14	7,755.91	79.24	98.884	
16,200.00	7,870.00	16,530.00	7,789.95	126.32	159.85	106.44	1,779.44	1,674.66	7,935.09	7,855.85	79.24	100.141	
16,300.00	7,870.00	16,530.00	7,789.95	127.99	159.85	106.44	1,779.44	1,674.66	8,035.04	7,955.79	79.24	101.396	
16,400.00	7,870.00	16,530.00	7,789.95	129.66	159.85	106.44	1,779.44	1,674.66	8,134.99	8,055.74	79.25	102.650	
16,500.00	7,870.00	16,530.00	7,789.95	131.33	159.85	106.44	1,779.44	1,674.66	8,234.94	8,155.68	79.26	103.901	
16,600.00	7,870.00	16,530.00	7,789.95	133.01	159.85	106.44	1,779.44	1,674.66	8,334.89	8,255.62	79.27	105.150	
16,700.00	7,870.00	16,530.00	7,789.95	134.69	159.85	106.44	1,779.44	1,674.66	8,434.84	8,355.57	79.28	106.397	
16,800.00	7,870.00	16,530.00	7,789.95	136.37	159.85	106.44	1,779.44	1,674.66	8,534.80	8,455.51	79.29	107.642	
16,900.00	7,870.00	16,530.00	7,789.95	138.06	159.85	106.44	1,779.44	1,674.66	8,634.75	8,555.45	79.30	108.884	
17,000.00	7,870.00	16,530.00	7,789.95	139.74	159.85	106.44	1,779.44	1,674.66	8,734.71	8,655.39	79.32	110.125	
17,100.00	7,870.00	16,530.00	7,789.95	141.43	159.85	106.44	1,779.44	1,674.66	8,834.66	8,755.33	79.33	111.363	
17,200.00	7,870.00	16,530.00	7,789.95	143.12	159.85	106.44	1,779.44	1,674.66	8,934.62	8,855.27	79.35	112.599	
17,300.00	7,870.00	16,530.00	7,789.95	144.81	159.85	106.44	1,779.44	1,674.66	9,034.58	8,955.21	79.37	113.833	
17,400.00	7,870.00	16,530.00	7,789.95	146.50	159.85	106.44	1,779.44	1,674.66	9,134.54	9,055.15	79.39	115.064	
17,500.00	7,870.00	16,530.00	7,789.95	148.19	159.85	106.44	1,779.44	1,674.66	9,234.50	9,155.09	79.41	116.293	
17,600.00	7,870.00	16,530.00	7,789.95	149.89	159.85	106.44	1,779.44	1,674.66	9,334.46	9,255.03	79.43	117.520	
17,700.00	7,870.00	16,530.00	7,789.95	151.59	159.85	106.44	1,779.44	1,674.66	9,434.42	9,354.97	79.45	118.745	
17,800.00	7,870.00	16,530.00	7,789.95	153.29	159.85	106.44	1,779.44	1,674.66	9,534.39	9,454.91	79.48	119.967	
17,900.00	7,870.00	16,530.00	7,789.95	154.99	159.85	106.44	1,779.44	1,674.66	9,634.35	9,554.85	79.50	121.187	
18,000.00	7,870.00	16,530.00	7,789.95	156.69	159.85	106.44	1,779.44	1,674.66	9,734.32	9,654.79	79.53	122.404	
18,100.00	7,870.00	16,530.00	7,789.95	158.39	159.85	106.44	1,779.44	1,674.66	9,834.28	9,754.73	79.55	123.619	
18,200.00	7,870.00	16,530.00	7,789.95	160.09	159.85	106.44	1,779.44	1,674.66	9,934.25	9,854.67	79.58	124.832	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 184-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-53.19	786.52	-1,051.10	1,312.85				
100.00	100.00	83.85	83.85	0.13	0.13	-53.20	786.55	-1,051.24	1,312.93	1,312.66	0.27	4,931.054	
200.00	200.00	179.13	179.13	0.49	0.28	-53.21	786.65	-1,051.75	1,313.43	1,312.65	0.77	1,696.442	ES
300.00	300.00	276.32	276.31	0.85	0.62	-53.22	786.89	-1,052.53	1,314.21	1,312.74	1.47	893.278	
400.00	400.00	374.61	374.60	1.21	0.97	-53.23	787.32	-1,053.42	1,315.20	1,313.02	2.18	602.786	
500.00	500.00	480.39	480.37	1.57	1.35	-53.23	787.69	-1,054.20	1,316.00	1,313.08	2.92	450.791	
600.00	600.00	561.32	561.30	1.93	1.64	-53.24	788.01	-1,054.86	1,316.97	1,313.40	3.57	369.092	
700.00	700.00	615.97	615.92	2.29	1.84	-53.24	789.16	-1,056.35	1,320.54	1,316.42	4.12	320.281	
800.00	800.00	666.49	666.29	2.64	2.03	-53.20	792.09	-1,058.87	1,327.95	1,323.29	4.66	285.089	
900.00	900.00	728.02	727.42	3.00	2.26	-53.10	797.84	-1,062.70	1,338.53	1,333.30	5.23	256.034	
1,000.00	1,000.00	802.65	801.30	3.36	2.53	-52.93	806.98	-1,068.00	1,351.56	1,345.71	5.85	231.165	
1,100.00	1,100.00	885.83	883.46	3.72	2.86	-52.72	818.11	-1,074.64	1,366.01	1,359.51	6.50	210.258	
1,200.00	1,200.00	972.95	969.37	4.08	3.22	-52.49	830.54	-1,082.02	1,381.43	1,374.27	7.17	192.776	
1,300.00	1,300.00	1,082.38	1,077.19	4.44	3.67	-52.18	846.90	-1,091.10	1,397.21	1,389.28	7.93	176.164	
1,400.00	1,399.98	1,186.62	1,179.96	4.79	4.12	-94.56	862.82	-1,098.20	1,412.16	1,403.48	8.68	162.731	
1,500.00	1,499.84	1,289.28	1,281.27	5.15	4.56	-94.18	877.82	-1,105.41	1,427.15	1,417.73	9.42	151.520	
1,600.00	1,599.45	1,404.28	1,394.82	5.51	5.05	-93.98	894.00	-1,113.68	1,442.27	1,432.05	10.22	141.170	
1,700.00	1,698.70	1,527.20	1,516.57	5.87	5.56	-93.98	909.58	-1,120.14	1,455.06	1,444.00	11.05	131.637	
1,800.00	1,797.47	1,625.18	1,613.65	6.24	5.97	-94.07	921.94	-1,125.04	1,468.01	1,456.22	11.80	124.441	
1,900.00	1,895.62	1,718.09	1,705.76	6.63	6.35	-94.29	932.74	-1,130.60	1,481.48	1,468.94	12.53	118.213	
2,000.00	1,993.06	1,811.68	1,798.60	7.04	6.73	-94.69	942.39	-1,137.53	1,495.69	1,482.40	13.29	112.564	
2,100.00	2,089.64	1,921.03	1,907.08	7.48	7.18	-95.30	953.96	-1,144.82	1,510.03	1,495.89	14.14	106.813	
2,200.00	2,185.27	2,016.23	2,001.48	7.94	7.58	-95.86	964.83	-1,150.52	1,524.96	1,510.00	14.96	101.935	
2,300.00	2,279.82	2,126.00	2,110.39	8.45	8.03	-96.64	977.52	-1,155.84	1,539.79	1,523.91	15.88	96.946	
2,400.00	2,373.17	2,215.06	2,198.73	8.99	8.39	-97.28	988.09	-1,159.82	1,555.40	1,538.65	16.76	92.820	
2,500.00	2,465.21	2,305.74	2,288.65	9.58	8.77	-98.02	998.96	-1,164.27	1,572.43	1,554.75	17.68	88.935	
2,574.08	2,532.50	2,374.99	2,357.36	10.04	9.05	-98.65	1,006.74	-1,167.92	1,585.74	1,567.34	18.40	86.176	
2,600.00	2,555.89	2,398.27	2,380.46	10.21	9.14	-98.96	1,009.30	-1,169.19	1,590.55	1,571.89	18.65	85.268	
2,700.00	2,646.16	2,491.94	2,473.41	10.88	9.53	-100.20	1,019.77	-1,174.16	1,609.59	1,589.93	19.66	81.876	
2,800.00	2,736.44	2,591.31	2,572.01	11.57	9.93	-101.46	1,031.22	-1,178.87	1,629.09	1,608.39	20.71	78.671	
2,900.00	2,826.71	2,691.81	2,671.82	12.27	10.34	-102.72	1,042.10	-1,183.43	1,648.86	1,627.09	21.77	75.736	
3,000.00	2,916.98	2,785.34	2,764.67	13.00	10.72	-103.85	1,052.56	-1,187.21	1,669.07	1,646.26	22.81	73.164	
3,100.00	3,007.25	2,881.64	2,860.27	13.73	11.11	-104.98	1,063.63	-1,190.80	1,689.82	1,665.94	23.87	70.779	
3,200.00	3,097.52	2,974.00	2,952.06	14.48	11.48	-106.07	1,073.30	-1,194.24	1,710.80	1,685.89	24.92	68.658	
3,300.00	3,187.80	3,037.00	3,014.66	15.23	11.73	-106.81	1,079.78	-1,197.18	1,733.25	1,707.43	25.82	67.136	
3,400.00	3,278.07	3,103.79	3,080.91	15.99	12.01	-107.57	1,087.20	-1,201.18	1,757.72	1,730.99	26.73	65.761	
3,500.00	3,368.34	3,183.03	3,159.35	16.76	12.34	-108.44	1,096.95	-1,206.83	1,784.06	1,756.36	27.70	64.400	
3,600.00	3,458.61	3,291.07	3,266.34	17.54	12.80	-109.60	1,109.85	-1,214.44	1,810.83	1,782.00	28.83	62.810	
3,700.00	3,548.89	3,402.84	3,377.27	18.32	13.26	-110.81	1,121.56	-1,221.51	1,837.06	1,807.10	29.97	61.306	
3,800.00	3,639.16	3,515.40	3,489.12	19.10	13.71	-111.99	1,132.86	-1,227.07	1,862.44	1,831.34	31.10	59.888	
3,900.00	3,729.43	3,592.51	3,565.68	19.89	14.02	-112.75	1,141.30	-1,230.71	1,888.47	1,856.42	32.05	58.924	
4,000.00	3,819.70	3,665.18	3,637.73	20.69	14.32	-113.44	1,149.91	-1,234.68	1,915.84	1,882.87	32.97	58.107	
4,100.00	3,909.98	3,753.32	3,725.09	21.48	14.69	-114.27	1,160.37	-1,240.03	1,944.20	1,910.22	33.97	57.228	
4,200.00	4,000.25	3,867.50	3,838.45	22.28	15.15	-115.34	1,172.33	-1,246.55	1,972.32	1,937.21	35.11	56.181	
4,300.00	4,090.52	3,953.74	3,924.12	23.08	15.50	-116.14	1,180.98	-1,251.25	2,000.60	1,964.52	36.08	55.452	
4,400.00	4,180.79	4,056.71	4,026.36	23.88	15.92	-117.06	1,191.73	-1,257.08	2,029.63	1,992.49	37.14	54.653	
4,500.00	4,271.06	4,176.85	4,145.99	24.69	16.38	-118.17	1,201.50	-1,262.37	2,057.37	2,019.10	38.27	53.766	
4,600.00	4,361.34	4,253.94	4,222.76	25.49	16.68	-118.87	1,207.54	-1,265.69	2,085.53	2,046.37	39.16	53.258	
4,700.00	4,451.61	4,328.77	4,297.18	26.30	16.98	-119.50	1,214.50	-1,269.36	2,114.86	2,074.82	40.04	52.822	
4,800.00	4,541.88	4,408.81	4,376.73	27.11	17.30	-120.17	1,222.16	-1,273.82	2,145.20	2,104.25	40.94	52.398	
4,900.00	4,632.15	4,494.28	4,461.62	27.92	17.64	-120.85	1,230.73	-1,278.78	2,176.18	2,134.31	41.87	51.974	
5,000.00	4,722.43	4,575.18	4,541.95	28.74	17.97	-121.47	1,238.98	-1,283.76	2,207.83	2,165.06	42.77	51.622	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 184-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,659.02	4,625.14	29.55	18.31	-122.10	1,247.74	-1,289.23	2,240.16	2,196.48	43.68	51.283	
5,200.00	4,902.97	4,787.91	4,752.94	30.37	18.85	-123.00	1,262.76	-1,296.60	2,272.17	2,227.29	44.88	50.625	
5,300.00	4,993.24	4,892.69	4,856.68	31.18	19.29	-123.65	1,276.78	-1,301.02	2,303.22	2,257.27	45.94	50.130	
5,400.00	5,083.51	4,971.24	4,934.44	32.00	19.62	-124.13	1,287.46	-1,304.40	2,334.61	2,287.76	46.84	49.839	
5,500.00	5,173.79	5,059.56	5,021.76	32.82	20.00	-124.63	1,299.96	-1,308.81	2,366.85	2,319.05	47.80	49.516	
5,600.00	5,264.06	5,168.91	5,130.15	33.63	20.45	-125.30	1,313.46	-1,313.77	2,398.73	2,349.86	48.87	49.081	
5,700.00	5,354.33	5,262.86	5,223.46	34.45	20.83	-125.88	1,323.69	-1,317.77	2,430.51	2,380.68	49.83	48.775	
5,800.00	5,444.60	5,356.60	5,316.54	35.27	21.21	-126.45	1,334.05	-1,321.74	2,462.49	2,411.71	50.78	48.489	
5,900.00	5,534.88	5,438.60	5,397.91	36.09	21.55	-126.92	1,343.55	-1,325.26	2,494.78	2,443.11	51.67	48.285	
6,000.00	5,625.15	5,511.52	5,470.16	36.91	21.85	-127.32	1,352.69	-1,328.79	2,527.79	2,475.30	52.49	48.154	
6,100.00	5,715.42	5,596.08	5,553.91	37.74	22.21	-127.76	1,363.46	-1,333.52	2,561.65	2,508.26	53.39	47.977	
6,200.00	5,805.69	5,689.81	5,646.85	38.56	22.60	-128.27	1,374.45	-1,338.62	2,595.54	2,541.20	54.34	47.764	
6,300.00	5,895.96	5,759.28	5,715.80	39.38	22.88	-128.65	1,381.91	-1,342.60	2,629.90	2,574.79	55.12	47.715	
6,400.00	5,986.24	5,820.00	5,775.95	40.20	23.14	-128.96	1,389.03	-1,346.91	2,665.60	2,609.77	55.83	47.746	
6,500.00	6,076.51	5,905.11	5,860.13	41.03	23.50	-129.38	1,399.63	-1,353.53	2,702.11	2,645.40	56.72	47.643	
6,600.00	6,166.78	6,026.36	5,980.29	41.85	24.01	-129.98	1,413.46	-1,362.02	2,738.06	2,680.22	57.84	47.336	
6,700.00	6,257.05	6,110.37	6,063.65	42.67	24.35	-130.41	1,422.28	-1,367.57	2,773.86	2,715.16	58.70	47.256	
6,800.00	6,347.33	6,182.07	6,134.77	43.50	24.65	-130.76	1,429.82	-1,372.71	2,810.31	2,750.85	59.46	47.260	
6,900.00	6,437.60	6,257.25	6,209.27	44.32	24.96	-131.12	1,438.01	-1,378.56	2,847.47	2,787.22	60.25	47.257	
7,000.00	6,527.87	6,370.56	6,321.56	45.15	25.43	-131.64	1,450.48	-1,387.31	2,884.73	2,823.41	61.32	47.047	
7,100.00	6,618.14	6,493.54	6,443.67	45.98	25.94	-132.22	1,462.51	-1,395.48	2,921.18	2,858.76	62.42	46.795	
7,200.00	6,708.41	6,644.69	6,593.72	46.80	26.55	-132.88	1,478.94	-1,403.19	2,956.29	2,892.57	63.72	46.394	
7,300.00	6,798.69	6,730.71	6,679.32	47.63	26.89	-133.28	1,486.68	-1,406.69	2,990.73	2,926.17	64.56	46.324	
7,400.00	6,888.96	6,808.49	6,756.76	48.45	27.19	-133.65	1,493.04	-1,410.10	3,025.64	2,960.30	65.34	46.308	
7,500.00	6,979.23	6,888.35	6,836.27	49.28	27.49	-134.01	1,499.50	-1,413.91	3,061.07	2,994.95	66.12	46.295	
7,600.00	7,069.50	6,989.53	6,937.10	50.11	27.88	-134.50	1,506.41	-1,418.65	3,096.68	3,029.65	67.02	46.202	
7,692.09	7,152.63	7,072.10	7,019.48	50.87	28.18	-134.91	1,510.62	-1,422.28	3,129.49	3,061.73	67.77	46.181	
7,700.00	7,159.79	7,077.67	7,025.04	50.93	28.19	-136.45	1,510.84	-1,422.52	3,132.32	3,064.51	67.82	46.188	
7,750.00	7,205.70	7,116.77	7,064.09	51.32	28.32	-147.60	1,511.90	-1,424.20	3,150.27	3,082.12	68.15	46.226	
7,800.00	7,252.52	7,156.15	7,103.44	51.66	28.46	-161.38	1,511.98	-1,425.88	3,168.22	3,099.78	68.45	46.287	
7,850.00	7,299.89	7,157.00	7,104.28	51.96	28.46	-177.55	1,511.97	-1,425.91	3,186.30	3,117.81	68.50	46.518	
7,900.00	7,347.44	7,157.00	7,104.28	52.20	28.46	165.13	1,511.97	-1,425.91	3,204.66	3,136.17	68.50	46.785	
7,950.00	7,394.83	7,199.06	7,146.23	52.39	28.57	148.92	1,510.19	-1,428.20	3,222.26	3,153.57	68.68	46.914	
8,000.00	7,441.68	7,213.01	7,160.10	52.53	28.61	135.21	1,509.02	-1,429.17	3,240.06	3,171.36	68.70	47.164	
8,050.00	7,487.65	7,246.00	7,192.74	52.62	28.70	124.33	1,505.10	-1,431.91	3,257.73	3,188.95	68.78	47.365	
8,100.00	7,532.37	7,246.00	7,192.74	52.67	28.70	115.66	1,505.10	-1,431.91	3,274.60	3,205.92	68.68	47.681	
8,150.00	7,575.52	7,246.00	7,192.74	52.67	28.70	108.75	1,505.10	-1,431.91	3,291.11	3,222.55	68.55	48.008	
8,200.00	7,616.76	7,246.00	7,192.74	52.63	28.70	103.14	1,505.10	-1,431.91	3,307.13	3,238.72	68.41	48.341	
8,250.00	7,655.77	7,284.77	7,230.75	52.55	28.78	98.88	1,498.58	-1,435.81	3,321.91	3,253.48	68.44	48.541	
8,300.00	7,692.27	7,299.13	7,244.72	52.44	28.81	95.22	1,495.67	-1,437.42	3,336.08	3,267.74	68.34	48.816	
8,350.00	7,725.97	7,335.00	7,279.30	52.29	28.89	92.41	1,487.24	-1,441.83	3,349.51	3,281.18	68.33	49.020	
8,400.00	7,756.62	7,335.00	7,279.30	52.12	28.89	89.74	1,487.24	-1,441.83	3,361.56	3,293.39	68.17	49.312	
8,450.00	7,783.98	7,347.52	7,291.28	51.92	28.91	87.64	1,483.98	-1,443.46	3,372.67	3,304.61	68.06	49.555	
8,500.00	7,807.85	7,381.91	7,324.07	51.70	28.96	86.20	1,474.61	-1,447.91	3,382.52	3,314.48	68.04	49.715	
8,550.00	7,828.05	7,414.76	7,355.23	51.45	29.02	85.10	1,465.10	-1,452.12	3,391.02	3,323.00	68.02	49.856	
8,600.00	7,844.41	7,643.81	7,566.01	51.20	29.28	86.91	1,379.49	-1,473.46	3,397.03	3,328.61	68.42	49.651	
8,650.00	7,856.82	7,688.02	7,603.10	50.93	29.30	86.64	1,355.58	-1,475.87	3,401.05	3,332.71	68.34	49.769	
8,700.00	7,865.18	7,860.97	7,727.34	50.65	29.25	87.93	1,236.20	-1,480.15	3,403.16	3,335.15	68.01	50.043	
8,750.00	7,869.43	7,899.39	7,750.71	50.36	29.22	88.16	1,205.72	-1,479.99	3,402.97	3,335.10	67.87	50.139	
8,776.25	7,870.00	7,915.19	7,759.98	50.21	29.21	88.35	1,192.91	-1,479.95	3,402.43	3,334.61	67.82	50.171	
8,800.00	7,870.00	7,929.58	7,768.24	50.08	29.21	88.49	1,181.14	-1,479.93	3,401.84	3,334.07	67.77	50.198	
8,900.00	7,870.00	7,988.36	7,800.27	49.53	29.18	89.03	1,131.86	-1,480.01	3,400.28	3,332.67	67.61	50.292	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 184-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,173.46	7,880.93	49.01	29.15	90.39	965.74	-1,478.94	3,399.41	3,332.14	67.27	50.535	
9,100.00	7,870.00	8,244.58	7,900.20	48.52	29.20	90.71	897.33	-1,477.37	3,397.07	3,329.83	67.24	50.521	
9,200.00	7,870.00	8,315.00	7,913.84	48.06	29.30	90.94	828.26	-1,476.69	3,395.93	3,328.63	67.29	50.464	
9,300.00	7,870.00	8,415.18	7,924.71	47.63	29.55	91.13	728.71	-1,476.15	3,395.24	3,327.81	67.44	50.347	
9,400.00	7,870.00	9,400.00	7,928.21	47.22	36.66	91.19	600.06	-1,475.27	3,394.37	3,322.99	71.38	47.552	
9,500.00	7,870.00	8,655.26	7,928.71	46.83	30.64	91.19	488.75	-1,472.95	3,391.90	3,323.63	68.27	49.686	
9,600.00	7,870.00	8,699.96	7,928.27	46.48	30.91	91.19	444.04	-1,472.48	3,390.58	3,321.81	68.77	49.305	
9,624.87	7,870.00	8,709.66	7,928.14	46.39	30.97	91.19	434.35	-1,472.50	3,390.52	3,321.61	68.91	49.205	
9,700.00	7,870.00	8,760.00	7,927.22	46.14	31.29	91.17	384.02	-1,473.27	3,391.20	3,321.81	69.38	48.877	
9,800.00	7,870.00	8,782.67	7,926.83	45.83	31.45	91.16	361.37	-1,473.96	3,393.25	3,323.32	69.93	48.523	
9,900.00	7,870.00	8,849.00	7,926.88	45.54	31.92	91.16	295.10	-1,476.85	3,397.09	3,326.37	70.72	48.034	
10,000.00	7,870.00	9,074.17	7,936.81	45.27	33.81	91.33	70.26	-1,482.29	3,399.28	3,326.59	72.70	46.759	
10,100.00	7,870.00	9,179.77	7,939.77	45.03	34.80	91.38	-35.29	-1,482.85	3,399.54	3,325.41	74.13	45.859	
10,200.00	7,870.00	9,297.74	7,941.77	44.82	35.99	91.41	-153.24	-1,483.12	3,399.48	3,323.67	75.81	44.841	
10,300.00	7,870.00	9,419.78	7,943.83	44.66	37.30	91.45	-275.26	-1,482.56	3,398.71	3,321.00	77.70	43.739	
10,400.00	7,870.00	9,529.43	7,945.87	44.56	38.55	91.48	-384.89	-1,481.64	3,397.58	3,317.96	79.61	42.675	
10,500.00	7,870.00	9,633.61	7,947.37	44.58	39.78	91.51	-489.05	-1,480.50	3,396.18	3,314.59	81.59	41.627	
10,600.00	7,870.00	10,600.00	7,948.04	44.82	51.65	91.52	-602.62	-1,478.86	3,394.40	3,300.19	94.21	36.030	
10,700.00	7,870.00	9,802.29	7,948.11	45.36	41.86	91.52	-657.72	-1,478.33	3,393.16	3,307.82	85.34	39.762	
10,743.66	7,870.00	9,829.00	7,948.24	45.67	42.20	91.52	-684.42	-1,478.38	3,393.08	3,307.01	86.07	39.423	
10,800.00	7,870.00	9,874.06	7,948.62	46.15	42.78	91.53	-729.48	-1,478.66	3,393.23	3,306.07	87.16	38.933	
10,900.00	7,870.00	9,971.49	7,949.96	47.09	44.05	91.55	-826.90	-1,479.34	3,393.63	3,304.25	89.38	37.969	
11,000.00	7,870.00	10,085.84	7,950.56	48.13	45.58	91.56	-941.25	-1,480.01	3,393.90	3,301.98	91.92	36.924	
11,021.55	7,870.00	10,112.03	7,950.56	48.36	45.93	91.56	-967.44	-1,480.07	3,393.88	3,301.38	92.50	36.692	
11,100.00	7,870.00	10,175.92	7,949.84	49.22	46.81	91.55	-1,031.32	-1,480.41	3,393.98	3,299.80	94.18	36.036	
11,200.00	7,870.00	10,259.87	7,948.79	50.37	47.97	91.53	-1,115.26	-1,481.15	3,394.49	3,298.08	96.41	35.208	
11,300.00	7,870.00	10,367.73	7,948.81	51.55	49.49	91.53	-1,223.11	-1,482.26	3,395.20	3,296.13	99.06	34.272	
11,400.00	7,870.00	10,481.81	7,948.04	52.76	51.13	91.52	-1,337.19	-1,483.02	3,395.50	3,293.62	101.88	33.328	
11,500.00	7,870.00	10,591.28	7,947.43	54.00	52.73	91.51	-1,446.66	-1,483.35	3,395.45	3,290.76	104.69	32.433	
11,600.00	7,870.00	10,715.63	7,948.09	55.27	54.57	91.52	-1,571.00	-1,483.19	3,395.01	3,287.21	107.80	31.493	
11,700.00	7,870.00	10,839.82	7,951.38	56.56	56.44	91.58	-1,695.13	-1,481.63	3,393.41	3,282.43	110.99	30.575	
11,800.00	7,870.00	10,918.29	7,952.13	57.88	57.63	91.59	-1,773.60	-1,480.98	3,392.24	3,278.81	113.44	29.904	
11,900.00	7,870.00	11,061.94	7,951.32	59.21	59.83	91.58	-1,917.22	-1,479.26	3,390.72	3,273.68	117.04	28.971	
12,000.00	7,870.00	11,137.48	7,950.83	60.57	61.00	91.57	-1,992.76	-1,477.99	3,388.71	3,269.20	119.51	28.355	
12,100.00	7,870.00	11,283.01	7,953.61	61.94	63.28	91.62	-2,138.22	-1,474.88	3,386.20	3,262.95	123.25	27.475	
12,200.00	7,870.00	11,344.00	7,954.85	63.33	64.24	91.64	-2,199.19	-1,473.93	3,384.18	3,258.65	125.52	26.960	
12,300.00	7,870.00	11,434.85	7,955.88	64.74	65.67	91.66	-2,290.03	-1,473.19	3,383.01	3,254.67	128.35	26.358	
12,400.00	7,870.00	11,553.27	7,956.95	66.16	67.56	91.68	-2,408.43	-1,471.13	3,380.90	3,249.20	131.70	25.671	
12,500.00	7,870.00	11,624.21	7,958.72	67.59	68.69	91.71	-2,479.33	-1,470.29	3,379.42	3,245.21	134.21	25.180	
12,600.00	7,870.00	11,762.02	7,960.26	69.04	70.91	91.74	-2,617.12	-1,468.49	3,377.83	3,239.86	137.98	24.481	
12,700.00	7,870.00	11,869.39	7,958.74	70.51	72.64	91.71	-2,724.45	-1,466.22	3,375.34	3,234.13	141.20	23.904	
12,800.00	7,870.00	11,940.94	7,956.35	71.98	73.80	91.67	-2,795.95	-1,465.03	3,373.24	3,229.47	143.78	23.462	
12,900.00	7,870.00	11,993.19	7,954.36	73.47	74.65	91.64	-2,848.16	-1,464.68	3,372.22	3,226.24	145.98	23.101	
12,912.55	7,870.00	11,998.41	7,954.17	73.65	74.74	91.63	-2,853.37	-1,464.70	3,372.21	3,225.98	146.23	23.061	
13,000.00	7,870.00	12,057.00	7,952.25	74.96	75.69	91.60	-2,911.93	-1,465.67	3,373.05	3,224.66	148.39	22.731	
13,100.00	7,870.00	12,094.73	7,951.13	76.47	76.30	91.58	-2,949.62	-1,466.80	3,375.13	3,224.86	150.26	22.461	
13,200.00	7,870.00	12,172.81	7,948.86	77.99	77.57	91.54	-3,027.63	-1,469.46	3,378.12	3,225.18	152.95	22.087	
13,300.00	7,870.00	12,285.74	7,947.23	79.51	79.41	91.51	-3,140.45	-1,473.96	3,381.79	3,225.42	156.37	21.627	
13,400.00	7,870.00	12,401.61	7,945.99	81.05	81.30	91.49	-3,256.27	-1,477.18	3,384.15	3,224.27	159.87	21.168	
13,500.00	7,870.00	13,500.00	7,950.31	82.59	99.50	91.56	-3,432.62	-1,479.74	3,385.17	3,205.23	179.94	18.812	
13,600.00	7,870.00	12,648.14	7,953.51	84.14	85.38	91.62	-3,502.63	-1,480.07	3,385.57	3,218.30	167.27	20.240	
13,700.00	7,870.00	12,704.30	7,956.54	85.70	86.31	91.67	-3,558.69	-1,481.23	3,387.40	3,217.82	169.58	19.975	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 184-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	7,870.00	12,773.77	7,958.64	87.26	87.46	91.70	-3,628.09	-1,483.43	3,390.30	3,218.14	172.16	19.693	
13,900.00	7,870.00	12,885.99	7,958.83	88.83	89.32	91.70	-3,740.25	-1,487.28	3,393.39	3,217.74	175.66	19.318	
14,000.00	7,870.00	12,998.69	7,958.03	90.41	91.19	91.69	-3,852.88	-1,490.93	3,396.29	3,217.11	179.18	18.955	
14,100.00	7,870.00	13,109.24	7,955.29	92.00	93.04	91.64	-3,963.36	-1,493.98	3,398.62	3,215.95	182.66	18.606	
14,200.00	7,870.00	13,260.32	7,952.55	93.59	95.57	91.59	-4,114.38	-1,496.37	3,399.64	3,212.62	187.03	18.177	
14,300.00	7,870.00	13,334.38	7,953.20	95.18	96.81	91.60	-4,188.43	-1,497.45	3,400.78	3,211.02	189.77	17.921	
14,400.00	7,870.00	13,523.53	7,955.33	96.79	100.00	91.64	-4,377.54	-1,499.38	3,401.93	3,207.01	194.93	17.452	
14,500.00	7,870.00	13,640.89	7,957.56	98.39	101.99	91.68	-4,494.86	-1,498.07	3,400.52	3,201.92	198.60	17.122	
14,600.00	7,870.00	13,742.80	7,961.73	100.00	103.72	91.75	-4,596.68	-1,496.62	3,398.88	3,196.91	201.97	16.828	
14,700.00	7,870.00	13,928.00	7,966.56	101.62	106.87	91.83	-4,781.75	-1,492.05	3,396.30	3,189.31	206.99	16.408	
14,800.00	7,870.00	13,975.07	7,967.18	103.24	107.68	91.84	-4,828.79	-1,490.45	3,392.78	3,183.46	209.31	16.209	
14,900.00	7,870.00	14,017.00	7,968.03	104.87	108.39	91.86	-4,870.70	-1,489.89	3,391.09	3,179.60	211.49	16.034	
14,974.75	7,870.00	14,061.82	7,969.08	106.08	109.16	91.88	-4,915.51	-1,489.87	3,390.82	3,177.45	213.37	15.892	
15,000.00	7,870.00	14,078.96	7,969.49	106.50	109.45	91.88	-4,932.64	-1,489.93	3,390.85	3,176.81	214.04	15.842	
15,100.00	7,870.00	14,157.58	7,971.30	108.13	110.79	91.91	-5,011.24	-1,490.64	3,391.47	3,174.54	216.93	15.634	
15,200.00	7,870.00	14,249.32	7,972.78	109.77	112.35	91.94	-5,102.96	-1,491.85	3,392.50	3,172.39	220.10	15.413	
15,300.00	7,870.00	14,335.32	7,973.18	111.41	113.81	91.95	-5,188.95	-1,493.21	3,393.76	3,170.61	223.15	15.208	
15,400.00	7,870.00	14,481.84	7,976.46	113.05	116.31	92.00	-5,335.41	-1,495.14	3,394.92	3,167.39	227.53	14.921	
15,500.00	7,870.00	14,607.92	7,979.97	114.70	118.47	92.06	-5,461.44	-1,495.34	3,394.88	3,163.42	231.46	14.667	
15,577.12	7,870.00	14,664.34	7,980.57	115.97	119.44	92.07	-5,517.86	-1,495.14	3,394.44	3,160.82	233.63	14.529	
15,600.00	7,870.00	14,674.06	7,980.70	116.35	119.60	92.07	-5,527.57	-1,495.19	3,394.49	3,160.37	234.12	14.499	
15,700.00	7,870.00	14,730.00	7,981.85	118.00	120.56	92.09	-5,583.49	-1,496.18	3,395.79	3,159.27	236.52	14.357	
15,800.00	7,870.00	14,780.14	7,983.25	119.66	121.42	92.11	-5,633.59	-1,497.75	3,398.44	3,159.69	238.75	14.234	
15,900.00	7,870.00	15,030.12	7,989.54	121.32	125.71	92.22	-5,883.43	-1,498.15	3,396.82	3,151.35	245.47	13.838	
16,000.00	7,870.00	15,100.38	7,989.90	122.98	126.92	92.23	-5,953.68	-1,497.92	3,396.12	3,147.88	248.24	13.681	
16,100.00	7,870.00	15,267.08	7,993.24	124.65	129.79	92.28	-6,120.34	-1,496.13	3,394.80	3,141.77	253.03	13.417	
16,200.00	7,870.00	15,302.09	7,993.71	126.32	130.39	92.29	-6,155.34	-1,495.78	3,393.45	3,138.37	255.08	13.303	
16,223.34	7,870.00	15,310.83	7,993.80	126.71	130.54	92.29	-6,164.08	-1,495.79	3,393.40	3,137.84	255.56	13.278	
16,300.00	7,870.00	15,353.00	7,994.01	127.99	131.27	92.30	-6,206.24	-1,496.36	3,394.01	3,136.60	257.41	13.185	
16,400.00	7,870.00	15,603.95	7,998.27	129.66	135.61	92.37	-6,457.08	-1,492.79	3,391.59	3,127.60	263.99	12.847	
16,500.00	7,870.00	15,689.90	8,000.16	131.33	137.10	92.41	-6,542.97	-1,490.23	3,388.37	3,121.23	267.14	12.684	
16,600.00	7,870.00	15,787.06	8,002.73	133.01	138.78	92.45	-6,640.05	-1,487.60	3,385.43	3,114.92	270.51	12.515	
16,700.00	7,870.00	15,871.21	8,006.55	134.69	140.25	92.52	-6,724.09	-1,485.42	3,382.70	3,109.08	273.62	12.363	
16,800.00	7,870.00	16,011.96	8,012.00	136.37	142.69	92.61	-6,864.66	-1,481.34	3,379.64	3,101.78	277.86	12.163	
16,900.00	7,870.00	16,093.39	8,014.19	138.06	144.11	92.65	-6,946.02	-1,478.55	3,376.04	3,095.11	280.93	12.017	
17,000.00	7,870.00	16,155.00	8,016.36	139.74	145.18	92.69	-7,007.58	-1,477.21	3,373.62	3,090.03	283.59	11.896	
17,100.00	7,870.00	16,211.86	8,018.66	141.43	146.17	92.73	-7,064.39	-1,476.65	3,372.40	3,086.28	286.12	11.787	
17,200.00	7,870.00	17,200.00	8,022.46	143.12	163.32	92.80	-7,171.42	-1,476.00	3,371.63	3,066.63	305.00	11.055	
17,300.00	7,870.00	16,439.21	8,025.36	144.81	150.12	92.85	-7,291.62	-1,474.48	3,370.09	3,076.52	293.57	11.480	
17,400.00	7,870.00	16,533.65	8,026.04	146.50	151.76	92.86	-7,386.05	-1,473.40	3,368.64	3,071.75	296.89	11.346	
17,500.00	7,870.00	16,601.00	8,025.59	148.19	152.93	92.85	-7,453.40	-1,472.84	3,367.55	3,067.93	299.63	11.239	
17,557.22	7,870.00	16,645.66	8,025.31	149.16	153.70	92.85	-7,498.05	-1,472.77	3,367.29	3,065.97	301.32	11.175	
17,600.00	7,870.00	16,669.42	8,025.39	149.89	154.11	92.85	-7,521.82	-1,472.91	3,367.41	3,065.05	302.36	11.137	
17,700.00	7,870.00	16,733.15	8,026.12	151.59	155.22	92.86	-7,585.54	-1,473.84	3,368.56	3,063.60	304.96	11.046	
17,800.00	7,870.00	16,879.58	8,028.43	153.29	157.75	92.90	-7,731.92	-1,476.39	3,370.29	3,060.83	309.46	10.891	
17,900.00	7,870.00	16,966.56	8,031.30	154.99	159.26	92.95	-7,818.85	-1,477.11	3,370.92	3,058.31	312.61	10.783	
18,000.00	7,870.00	17,095.74	8,035.23	156.69	161.51	93.01	-7,947.96	-1,477.50	3,371.01	3,054.31	316.70	10.644	
18,100.00	7,870.00	17,196.39	8,036.54	158.39	163.26	93.04	-8,048.61	-1,477.50	3,370.74	3,050.57	320.17	10.528	
18,152.69	7,870.00	17,241.29	8,036.87	159.29	164.04	93.04	-8,093.50	-1,477.56	3,370.65	3,048.84	321.81	10.474	
18,200.00	7,870.00	17,275.74	8,036.93	160.09	164.64	93.04	-8,127.96	-1,477.74	3,370.75	3,047.59	323.15	10.431	
18,300.00	7,870.00	17,384.38	8,035.83	161.80	166.52	93.02	-8,236.58	-1,478.72	3,371.27	3,044.47	326.80	10.316	
18,400.00	7,870.00	17,501.84	8,032.76	163.51	168.57	92.97	-8,354.00	-1,479.04	3,371.05	3,040.41	330.65	10.195	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 184-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,455.45	7,870.00	17,546.00	8,031.39	164.45	169.33	92.95	-8,398.14	-1,479.08	3,370.86	3,038.54	332.31	10.144	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 140-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.93	786.52	-1,041.02	1,304.79				
100.00	100.00	94.68	94.68	0.13	0.14	-52.93	786.34	-1,040.85	1,304.51	1,304.23	0.28	4,712.016	
200.00	200.00	195.42	195.42	0.49	0.41	-52.93	785.86	-1,040.39	1,303.86	1,302.96	0.90	1,446.011	
300.00	300.00	291.19	291.19	0.85	0.75	-52.94	785.57	-1,040.12	1,303.45	1,301.85	1.60	812.973	
400.00	400.00	391.13	391.13	1.21	1.11	-52.94	785.45	-1,039.97	1,303.25	1,300.93	2.32	562.088	
500.00	500.00	492.69	492.68	1.57	1.47	-52.93	785.37	-1,039.64	1,302.95	1,299.91	3.04	428.714	
543.28	543.28	536.65	536.64	1.72	1.63	-52.93	785.35	-1,039.45	1,302.79	1,299.44	3.35	388.762	CC, ES
600.00	600.00	568.59	568.58	1.93	1.73	-52.92	785.65	-1,039.66	1,303.27	1,299.61	3.66	356.031	
700.00	700.00	635.50	635.46	2.29	1.96	-52.89	787.43	-1,040.63	1,306.03	1,301.78	4.24	307.767	
800.00	800.00	700.53	700.34	2.64	2.18	-52.78	791.51	-1,041.85	1,311.35	1,306.53	4.82	272.116	
900.00	900.00	763.15	762.65	3.00	2.40	-52.61	797.51	-1,043.64	1,319.44	1,314.05	5.39	244.972	
1,000.00	1,000.00	848.70	847.54	3.36	2.71	-52.35	807.63	-1,046.73	1,329.53	1,323.49	6.04	220.088	
1,100.00	1,100.00	942.09	940.09	3.72	3.07	-52.02	819.69	-1,050.09	1,340.32	1,333.59	6.73	199.135	
1,200.00	1,200.00	1,033.38	1,030.49	4.08	3.42	-51.70	831.97	-1,053.53	1,351.63	1,344.21	7.42	182.216	
1,300.00	1,300.00	1,123.63	1,119.73	4.44	3.78	-51.37	844.92	-1,057.11	1,363.71	1,355.60	8.10	168.255	
1,400.00	1,399.98	1,226.66	1,221.61	4.79	4.20	-93.77	859.57	-1,061.54	1,376.13	1,367.28	8.84	155.615	
1,500.00	1,499.84	1,331.53	1,325.48	5.15	4.62	-93.44	873.17	-1,066.42	1,388.27	1,378.69	9.59	144.766	
1,600.00	1,599.45	1,422.21	1,415.25	5.51	5.00	-93.23	885.44	-1,070.28	1,400.70	1,390.42	10.28	136.201	
1,700.00	1,698.70	1,508.13	1,499.99	5.87	5.36	-93.02	899.28	-1,073.13	1,414.22	1,403.25	10.97	128.911	
1,800.00	1,797.47	1,624.46	1,614.58	6.24	5.86	-92.95	919.01	-1,076.51	1,428.22	1,416.41	11.81	120.928	
1,900.00	1,895.62	1,715.75	1,704.56	6.63	6.26	-92.95	934.37	-1,078.25	1,441.52	1,428.97	12.56	114.792	
2,000.00	1,993.06	1,797.39	1,784.97	7.04	6.62	-93.03	948.26	-1,080.67	1,455.98	1,442.70	13.28	109.624	
2,100.00	2,089.64	1,948.25	1,933.77	7.48	7.27	-93.64	972.81	-1,084.41	1,470.11	1,455.76	14.35	102.446	
2,200.00	2,185.27	2,067.58	2,052.13	7.94	7.76	-94.35	987.92	-1,085.73	1,481.13	1,465.84	15.29	96.845	
2,300.00	2,279.82	2,157.44	2,141.32	8.45	8.12	-94.96	998.68	-1,087.01	1,492.68	1,476.53	16.14	92.463	
2,400.00	2,373.17	2,243.48	2,226.72	8.99	8.47	-95.61	1,009.06	-1,088.79	1,505.50	1,488.49	17.02	88.476	
2,500.00	2,465.21	2,339.40	2,321.90	9.58	8.86	-96.47	1,020.64	-1,091.12	1,519.53	1,501.56	17.97	84.538	
2,574.08	2,532.50	2,408.30	2,390.33	10.04	9.14	-97.14	1,028.54	-1,092.98	1,530.52	1,511.81	18.70	81.838	
2,600.00	2,555.89	2,432.26	2,414.13	10.21	9.24	-97.47	1,031.16	-1,093.71	1,534.50	1,515.54	18.96	80.933	
2,700.00	2,646.16	2,525.87	2,507.14	10.88	9.61	-98.72	1,041.36	-1,096.54	1,550.35	1,530.38	19.98	77.614	
2,800.00	2,736.44	2,618.73	2,599.43	11.57	9.98	-99.95	1,051.29	-1,099.38	1,566.93	1,545.93	21.00	74.613	
2,900.00	2,826.71	2,728.73	2,708.83	12.27	10.41	-101.41	1,062.21	-1,102.70	1,583.94	1,561.83	22.11	71.634	
3,000.00	2,916.98	2,851.39	2,830.86	13.00	10.89	-102.94	1,074.53	-1,103.88	1,600.03	1,576.74	23.29	68.700	
3,100.00	3,007.25	2,943.82	2,922.60	13.73	11.26	-103.98	1,085.73	-1,102.64	1,615.81	1,591.46	24.36	66.343	
3,200.00	3,097.52	3,014.22	2,992.37	14.48	11.55	-104.75	1,095.09	-1,102.11	1,633.14	1,607.81	25.33	64.482	
3,300.00	3,187.80	3,097.99	3,075.37	15.23	11.90	-105.64	1,106.42	-1,102.31	1,651.94	1,625.58	26.36	62.666	
3,400.00	3,278.07	3,192.39	3,168.94	15.99	12.29	-106.65	1,118.87	-1,102.85	1,671.44	1,643.99	27.45	60.901	
3,500.00	3,368.34	3,302.33	3,277.95	16.76	12.74	-107.80	1,133.17	-1,103.21	1,691.20	1,662.59	28.60	59.124	
3,600.00	3,458.61	3,402.76	3,377.69	17.54	13.14	-108.86	1,144.87	-1,103.20	1,710.69	1,680.98	29.71	57.586	
3,700.00	3,548.89	3,469.45	3,443.95	18.32	13.41	-109.56	1,152.44	-1,103.78	1,731.33	1,700.69	30.64	56.512	
3,800.00	3,639.16	3,528.88	3,502.92	19.10	13.66	-110.17	1,159.76	-1,105.03	1,753.95	1,722.44	31.52	55.647	
3,900.00	3,729.43	3,600.95	3,574.18	19.89	13.96	-110.86	1,170.22	-1,107.54	1,778.82	1,746.36	32.46	54.798	
4,000.00	3,819.70	3,720.89	3,693.00	20.69	14.46	-112.02	1,185.98	-1,111.63	1,803.76	1,770.10	33.67	53.578	
4,100.00	3,909.98	3,820.83	3,792.29	21.48	14.86	-113.02	1,197.02	-1,114.45	1,828.04	1,793.30	34.74	52.623	
4,200.00	4,000.25	3,912.08	3,882.86	22.28	15.24	-113.88	1,207.88	-1,116.77	1,852.77	1,817.00	35.76	51.804	
4,300.00	4,090.52	4,007.19	3,977.12	23.08	15.63	-114.72	1,220.34	-1,118.86	1,877.91	1,841.09	36.82	51.008	
4,400.00	4,180.79	4,113.78	4,083.06	23.88	16.06	-115.72	1,231.80	-1,121.40	1,903.06	1,865.15	37.91	50.204	
4,500.00	4,271.06	4,201.96	4,170.77	24.69	16.40	-116.53	1,240.62	-1,123.45	1,928.43	1,889.55	38.88	49.596	
4,600.00	4,361.34	4,291.40	4,259.58	25.49	16.76	-117.30	1,251.00	-1,125.32	1,954.35	1,914.48	39.87	49.015	
4,700.00	4,451.61	4,378.38	4,345.98	26.30	17.11	-118.04	1,260.78	-1,127.41	1,980.85	1,940.01	40.84	48.501	
4,800.00	4,541.88	4,458.28	4,425.29	27.11	17.44	-118.70	1,270.26	-1,129.62	2,008.15	1,966.39	41.77	48.079	
4,900.00	4,632.15	4,556.09	4,522.17	27.92	17.85	-119.43	1,283.43	-1,132.36	2,036.11	1,993.31	42.80	47.569	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,662.34	4,627.65	28.74	18.28	-120.26	1,295.92	-1,134.97	2,063.77	2,019.89	43.87	47.040	
5,100.00	4,812.70	4,739.65	4,704.34	29.55	18.60	-120.83	1,305.51	-1,136.79	2,091.74	2,046.97	44.77	46.720	
5,200.00	4,902.97	4,834.16	4,797.83	30.37	19.00	-121.46	1,319.16	-1,139.22	2,120.46	2,074.68	45.79	46.313	
5,300.00	4,993.24	4,929.21	4,891.99	31.18	19.40	-122.11	1,331.87	-1,141.58	2,149.22	2,102.43	46.79	45.933	
5,400.00	5,083.51	5,022.37	4,984.44	32.00	19.78	-122.76	1,343.08	-1,144.02	2,178.19	2,130.43	47.76	45.602	
5,500.00	5,173.79	5,123.14	5,084.60	32.82	20.18	-123.48	1,353.90	-1,146.61	2,207.26	2,158.50	48.77	45.262	
5,600.00	5,264.06	5,213.90	5,174.82	33.63	20.54	-124.12	1,363.53	-1,148.82	2,236.47	2,186.77	49.70	44.999	
5,700.00	5,354.33	5,301.74	5,262.03	34.45	20.90	-124.69	1,373.80	-1,151.02	2,266.10	2,215.47	50.62	44.763	
5,800.00	5,444.60	5,410.01	5,369.50	35.27	21.34	-125.38	1,386.66	-1,153.48	2,295.78	2,244.11	51.67	44.428	
5,900.00	5,534.88	5,520.35	5,478.87	36.09	21.80	-126.02	1,401.16	-1,154.88	2,324.80	2,272.06	52.74	44.076	
6,000.00	5,625.15	5,618.66	5,576.46	36.91	22.20	-126.60	1,412.96	-1,155.88	2,353.76	2,300.03	53.72	43.812	
6,100.00	5,715.42	5,700.72	5,658.07	37.74	22.52	-127.11	1,421.47	-1,156.76	2,382.90	2,328.31	54.59	43.653	
6,200.00	5,805.69	5,787.80	5,744.57	38.56	22.87	-127.62	1,431.47	-1,158.20	2,412.83	2,357.34	55.48	43.489	
6,300.00	5,895.96	5,869.90	5,826.19	39.38	23.20	-128.11	1,440.14	-1,159.59	2,443.00	2,386.66	56.33	43.368	
6,400.00	5,986.24	5,952.22	5,908.08	40.20	23.52	-128.60	1,448.35	-1,161.65	2,474.08	2,416.90	57.18	43.272	
6,500.00	6,076.51	6,059.07	6,014.10	41.03	23.96	-129.16	1,461.38	-1,163.93	2,505.07	2,446.88	58.19	43.047	
6,600.00	6,166.78	6,145.04	6,099.40	41.85	24.31	-129.60	1,471.99	-1,165.57	2,536.02	2,476.95	59.07	42.929	
6,700.00	6,257.05	6,232.52	6,186.36	42.67	24.66	-130.07	1,481.26	-1,167.66	2,567.59	2,507.64	59.95	42.832	
6,800.00	6,347.33	6,326.20	6,279.44	43.50	25.03	-130.56	1,491.66	-1,169.81	2,599.24	2,538.38	60.86	42.710	
6,900.00	6,437.60	6,407.74	6,360.28	44.32	25.37	-130.94	1,502.06	-1,171.84	2,631.22	2,569.51	61.70	42.643	
7,000.00	6,527.87	6,479.77	6,431.71	45.15	25.67	-131.27	1,511.11	-1,174.08	2,663.91	2,601.43	62.48	42.639	
7,100.00	6,618.14	6,547.81	6,499.25	45.98	25.94	-131.60	1,518.87	-1,176.80	2,697.58	2,634.38	63.21	42.679	
7,200.00	6,708.41	6,638.39	6,589.35	46.80	26.30	-132.06	1,527.26	-1,180.72	2,731.80	2,667.74	64.06	42.643	
7,300.00	6,798.69	6,722.28	6,672.94	47.63	26.61	-132.52	1,533.31	-1,184.41	2,766.35	2,701.50	64.84	42.662	
7,400.00	6,888.96	6,820.31	6,770.74	48.45	26.96	-133.09	1,538.68	-1,188.61	2,801.09	2,735.40	65.69	42.640	
7,500.00	6,979.23	6,987.00	6,937.19	49.28	27.49	-134.18	1,539.77	-1,193.90	2,835.90	2,769.07	66.83	42.434	
7,600.00	7,069.50	7,015.96	6,965.98	50.11	27.56	-134.43	1,536.79	-1,194.26	2,869.59	2,802.41	67.18	42.716	
7,692.09	7,152.63	7,041.24	6,991.00	50.87	27.61	-134.66	1,533.23	-1,194.98	2,902.59	2,835.13	67.46	43.029	
7,700.00	7,159.79	7,043.36	6,993.09	50.93	27.61	-136.21	1,532.89	-1,195.06	2,905.51	2,838.03	67.48	43.059	
7,750.00	7,205.70	7,076.00	7,025.14	51.32	27.68	-147.57	1,526.88	-1,196.57	2,924.50	2,856.84	67.67	43.220	
7,800.00	7,252.52	7,076.00	7,025.14	51.66	27.68	-161.37	1,526.88	-1,196.57	2,943.54	2,875.84	67.70	43.479	
7,850.00	7,299.89	7,166.00	7,112.37	51.96	27.83	-178.19	1,505.11	-1,199.99	2,962.40	2,894.44	67.97	43.587	
7,900.00	7,347.44	7,190.69	7,135.97	52.20	27.86	164.38	1,497.90	-1,200.59	2,980.60	2,912.60	68.00	43.832	
7,950.00	7,394.83	7,209.40	7,153.70	52.39	27.88	148.05	1,491.94	-1,201.18	2,998.67	2,930.67	67.99	44.102	
8,000.00	7,441.68	7,228.23	7,171.39	52.53	27.90	134.26	1,485.52	-1,201.87	3,016.44	2,948.48	67.96	44.385	
8,050.00	7,487.65	7,255.00	7,196.25	52.62	27.93	123.25	1,475.66	-1,203.06	3,033.82	2,965.89	67.92	44.666	
8,100.00	7,532.37	7,255.00	7,196.25	52.67	27.93	114.60	1,475.66	-1,203.06	3,050.63	2,982.81	67.82	44.984	
8,150.00	7,575.52	7,255.00	7,196.25	52.67	27.93	107.70	1,475.66	-1,203.06	3,067.05	2,999.36	67.69	45.310	
8,200.00	7,616.76	7,292.35	7,230.49	52.63	27.97	102.28	1,460.92	-1,205.32	3,082.24	3,014.61	67.63	45.578	
8,250.00	7,655.77	7,306.52	7,243.37	52.55	27.98	97.82	1,455.13	-1,206.42	3,096.88	3,029.36	67.51	45.872	
8,300.00	7,692.27	7,344.00	7,277.15	52.44	28.01	94.32	1,439.26	-1,209.95	3,110.89	3,043.46	67.44	46.130	
8,350.00	7,725.97	7,344.00	7,277.15	52.29	28.01	91.22	1,439.26	-1,209.95	3,123.39	3,056.10	67.30	46.413	
8,400.00	7,756.62	7,407.64	7,333.04	52.12	28.05	89.16	1,409.46	-1,215.88	3,134.92	3,067.67	67.25	46.618	
8,450.00	7,783.98	7,463.47	7,379.99	51.92	28.07	87.52	1,379.53	-1,219.82	3,144.21	3,077.06	67.15	46.823	
8,500.00	7,807.85	7,497.83	7,407.35	51.70	28.08	86.11	1,358.88	-1,222.00	3,152.07	3,085.04	67.03	47.024	
8,550.00	7,828.05	7,522.00	7,425.80	51.45	28.08	84.97	1,343.34	-1,223.43	3,158.49	3,091.57	66.92	47.197	
8,600.00	7,844.41	7,556.83	7,451.24	51.20	28.08	84.25	1,319.64	-1,225.45	3,163.47	3,096.67	66.80	47.357	
8,650.00	7,856.82	8,650.00	7,514.22	50.93	28.17	84.35	1,247.65	-1,229.88	3,167.03	3,100.26	66.78	47.428	
8,700.00	7,865.18	7,777.30	7,586.61	50.65	28.09	85.02	1,146.48	-1,230.72	3,167.22	3,100.98	66.24	47.812	
8,750.00	7,869.43	7,812.85	7,603.27	50.36	28.11	85.28	1,115.08	-1,230.17	3,165.74	3,099.60	66.14	47.865	
8,776.25	7,870.00	7,830.13	7,610.51	50.21	28.11	85.51	1,099.40	-1,229.86	3,164.41	3,098.32	66.09	47.879	
8,800.00	7,870.00	7,846.09	7,616.68	50.08	28.12	85.62	1,084.68	-1,229.56	3,163.07	3,097.02	66.05	47.889	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,968.00	7,648.53	49.53	28.22	86.19	967.33	-1,225.16	3,157.03	3,091.32	65.71	48.047	
9,000.00	7,870.00	8,021.75	7,656.45	49.01	28.31	86.33	914.23	-1,222.62	3,151.31	3,085.64	65.67	47.985	
9,100.00	7,870.00	8,065.90	7,661.83	48.52	28.39	86.43	870.42	-1,221.61	3,147.74	3,082.02	65.72	47.895	
9,200.00	7,870.00	8,183.11	7,673.34	48.06	28.72	86.63	753.84	-1,218.45	3,144.00	3,078.24	65.76	47.811	
9,300.00	7,870.00	8,238.79	7,675.09	47.63	28.91	86.66	698.20	-1,217.30	3,141.40	3,075.43	65.97	47.616	
9,400.00	7,870.00	8,323.63	7,675.31	47.22	29.27	86.66	613.37	-1,216.18	3,139.73	3,073.44	66.28	47.369	
9,500.00	7,870.00	8,414.97	7,675.45	46.83	29.73	86.67	522.04	-1,215.31	3,138.44	3,071.68	66.75	47.017	
9,600.00	7,870.00	8,530.60	7,676.01	46.48	30.44	86.67	406.41	-1,214.32	3,137.24	3,069.78	67.46	46.504	
9,700.00	7,870.00	8,681.62	7,676.23	46.14	31.53	86.67	255.44	-1,210.83	3,134.49	3,065.95	68.54	45.733	
9,800.00	7,870.00	8,744.97	7,675.94	45.83	32.05	86.67	192.11	-1,209.33	3,131.80	3,062.40	69.40	45.126	
9,900.00	7,870.00	8,807.23	7,675.58	45.54	32.59	86.66	129.85	-1,208.56	3,130.28	3,059.94	70.34	44.505	
10,000.00	7,870.00	8,884.71	7,676.69	45.27	33.30	86.68	52.38	-1,208.68	3,129.95	3,058.48	71.47	43.795	
10,100.00	7,870.00	9,033.55	7,678.81	45.03	34.76	86.72	-96.44	-1,207.81	3,128.92	3,055.61	73.31	42.683	
10,200.00	7,870.00	9,149.04	7,679.03	44.82	36.00	86.72	-211.91	-1,205.78	3,126.80	3,051.74	75.06	41.658	
10,300.00	7,870.00	9,232.51	7,679.59	44.66	36.93	86.73	-295.36	-1,204.38	3,124.76	3,048.14	76.63	40.779	
10,400.00	7,870.00	9,304.00	7,680.16	44.56	37.76	86.74	-366.85	-1,203.79	3,123.53	3,045.38	78.15	39.968	
10,500.00	7,870.00	9,393.00	7,680.46	44.58	38.82	86.74	-455.85	-1,203.35	3,122.71	3,042.76	79.95	39.058	
10,561.13	7,870.00	9,439.98	7,680.75	44.68	39.40	86.75	-502.83	-1,203.29	3,122.44	3,041.43	81.01	38.542	
10,600.00	7,870.00	9,463.50	7,681.11	44.82	39.69	86.75	-526.35	-1,203.45	3,122.54	3,040.93	81.61	38.261	
10,700.00	7,870.00	9,557.10	7,683.53	45.36	40.87	86.80	-619.91	-1,204.62	3,123.30	3,039.66	83.64	37.343	
10,800.00	7,870.00	9,658.25	7,686.92	46.15	42.18	86.86	-720.99	-1,205.83	3,123.96	3,038.11	85.86	36.386	
10,900.00	7,870.00	9,774.38	7,691.11	47.09	43.73	86.94	-837.04	-1,206.89	3,124.34	3,035.95	88.38	35.349	
11,000.00	7,870.00	9,865.84	7,694.58	48.13	44.98	87.00	-928.44	-1,207.50	3,124.48	3,033.84	90.64	34.473	
11,100.00	7,870.00	9,936.12	7,695.70	49.22	45.95	87.02	-998.69	-1,208.45	3,125.39	3,032.78	92.61	33.748	
11,200.00	7,870.00	10,016.00	7,695.66	50.37	47.06	87.02	-1,078.56	-1,210.11	3,127.13	3,032.36	94.77	32.998	
11,300.00	7,870.00	10,132.04	7,694.47	51.55	48.71	87.00	-1,194.56	-1,212.57	3,128.97	3,031.41	97.56	32.074	
11,400.00	7,870.00	10,239.34	7,692.65	52.76	50.26	86.97	-1,301.83	-1,214.18	3,130.21	3,029.94	100.27	31.218	
11,500.00	7,870.00	10,362.32	7,689.52	54.00	52.07	86.92	-1,424.77	-1,215.82	3,131.39	3,028.08	103.30	30.312	
11,600.00	7,870.00	10,454.90	7,687.06	55.27	53.45	86.87	-1,517.30	-1,216.54	3,131.98	3,026.10	105.88	29.580	
11,700.00	7,870.00	10,563.32	7,687.89	56.56	55.09	86.89	-1,625.70	-1,217.68	3,132.65	3,023.85	108.79	28.794	
11,800.00	7,870.00	10,679.74	7,692.00	57.88	56.87	86.96	-1,742.05	-1,218.69	3,133.00	3,021.08	111.92	27.993	
11,900.00	7,870.00	10,809.83	7,692.97	59.21	58.87	86.98	-1,872.12	-1,218.49	3,132.46	3,017.13	115.33	27.162	
12,000.00	7,870.00	10,927.87	7,689.80	60.57	60.72	86.92	-1,990.11	-1,217.24	3,131.21	3,012.66	118.55	26.414	
12,100.00	7,870.00	11,028.33	7,685.74	61.94	62.30	86.84	-2,090.47	-1,215.60	3,129.45	3,007.98	121.48	25.762	
12,200.00	7,870.00	11,110.54	7,683.60	63.33	63.60	86.80	-2,172.65	-1,214.83	3,128.30	3,004.20	124.10	25.207	
12,300.00	7,870.00	11,209.96	7,681.57	64.74	65.18	86.77	-2,272.04	-1,213.91	3,127.15	3,000.08	127.08	24.608	
12,400.00	7,870.00	11,310.81	7,679.94	66.16	66.79	86.73	-2,372.88	-1,213.44	3,126.44	2,996.34	130.11	24.030	
12,500.00	7,870.00	11,452.69	7,679.00	67.59	69.08	86.72	-2,514.73	-1,211.43	3,124.70	2,990.75	133.95	23.327	
12,600.00	7,870.00	11,531.00	7,679.87	69.04	70.35	86.73	-2,593.02	-1,209.64	3,122.16	2,985.55	136.62	22.853	
12,700.00	7,870.00	11,591.34	7,680.83	70.51	71.33	86.75	-2,653.35	-1,208.86	3,120.73	2,981.80	138.93	22.462	
12,711.92	7,870.00	11,596.35	7,680.92	70.68	71.41	86.75	-2,658.35	-1,208.87	3,120.70	2,981.53	139.17	22.424	
12,800.00	7,870.00	11,643.85	7,681.83	71.98	72.18	86.76	-2,705.84	-1,209.42	3,121.24	2,980.16	141.08	22.124	
12,900.00	7,870.00	11,725.81	7,683.25	73.47	73.51	86.79	-2,787.77	-1,211.05	3,122.77	2,978.94	143.82	21.712	
13,000.00	7,870.00	11,860.56	7,685.04	74.96	75.71	86.83	-2,922.49	-1,213.27	3,124.02	2,976.33	147.69	21.153	
13,100.00	7,870.00	11,942.07	7,686.26	76.47	77.04	86.85	-3,003.99	-1,214.16	3,124.73	2,974.27	150.46	20.768	
13,200.00	7,870.00	12,022.68	7,688.61	77.99	78.37	86.89	-3,084.54	-1,215.90	3,126.37	2,973.15	153.22	20.404	
13,300.00	7,870.00	12,121.37	7,692.36	79.51	79.99	86.96	-3,183.13	-1,218.28	3,128.24	2,971.85	156.39	20.003	
13,400.00	7,870.00	12,221.82	7,696.66	81.05	81.65	87.04	-3,283.46	-1,220.72	3,130.10	2,970.49	159.61	19.611	
13,500.00	7,870.00	12,327.05	7,701.56	82.59	83.39	87.14	-3,388.55	-1,223.21	3,131.89	2,968.94	162.96	19.219	
13,600.00	7,870.00	12,405.66	7,704.97	84.14	84.70	87.20	-3,467.06	-1,225.23	3,133.91	2,968.19	165.72	18.911	
13,700.00	7,870.00	12,519.13	7,707.93	85.70	86.58	87.26	-3,580.44	-1,228.34	3,136.20	2,966.94	169.26	18.529	
13,800.00	7,870.00	12,645.87	7,709.78	87.26	88.70	87.29	-3,707.15	-1,230.80	3,137.73	2,964.62	173.10	18.126	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 140-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,870.00	12,758.41	7,711.70	88.83	90.58	87.33	-3,819.66	-1,232.20	3,138.55	2,961.90	176.64	17.768	
14,000.00	7,870.00	12,876.78	7,716.88	90.41	92.57	87.42	-3,937.90	-1,233.36	3,138.99	2,958.66	180.34	17.406	
14,100.00	7,870.00	12,982.86	7,722.35	92.00	94.36	87.52	-4,043.84	-1,234.03	3,139.05	2,955.27	183.78	17.080	
14,200.00	7,870.00	13,082.44	7,727.40	93.59	96.04	87.62	-4,143.30	-1,234.41	3,138.88	2,951.79	187.09	16.777	
14,210.42	7,870.00	13,091.19	7,727.78	93.75	96.19	87.62	-4,152.04	-1,234.45	3,138.88	2,951.48	187.40	16.750	
14,300.00	7,870.00	13,172.32	7,730.57	95.18	97.56	87.67	-4,233.12	-1,235.00	3,139.05	2,948.86	190.19	16.505	
14,400.00	7,870.00	13,271.66	7,733.51	96.79	99.24	87.73	-4,332.41	-1,235.73	3,139.33	2,945.83	193.50	16.224	
14,500.00	7,870.00	13,387.33	7,736.25	98.39	101.20	87.78	-4,448.04	-1,236.39	3,139.49	2,942.31	197.17	15.923	
14,600.00	7,870.00	13,520.89	7,739.42	100.00	103.48	87.83	-4,581.57	-1,236.06	3,138.83	2,937.59	201.24	15.597	
14,700.00	7,870.00	13,629.00	7,741.75	101.62	105.32	87.88	-4,689.65	-1,234.69	3,137.11	2,932.35	204.76	15.321	
14,800.00	7,870.00	13,877.19	7,742.10	103.24	109.57	87.88	-4,937.61	-1,225.58	3,132.92	2,921.84	211.08	14.842	
14,900.00	7,870.00	13,937.00	7,741.78	104.87	110.60	87.87	-4,997.35	-1,222.75	3,127.64	2,913.96	213.69	14.637	
15,000.00	7,870.00	13,962.14	7,741.48	106.50	111.03	87.86	-5,022.48	-1,222.01	3,124.00	2,908.46	215.54	14.494	
15,100.00	7,870.00	14,000.97	7,740.87	108.13	111.70	87.85	-5,061.30	-1,221.49	3,122.39	2,904.80	217.59	14.350	
15,144.66	7,870.00	14,026.00	7,740.38	108.86	112.13	87.84	-5,086.32	-1,221.56	3,122.33	2,903.68	218.66	14.280	
15,200.00	7,870.00	14,058.11	7,739.69	109.77	112.67	87.83	-5,118.42	-1,221.87	3,122.64	2,902.65	219.99	14.195	
15,300.00	7,870.00	14,179.35	7,736.84	111.41	114.75	87.78	-5,239.62	-1,222.97	3,123.36	2,899.54	223.82	13.955	
15,340.80	7,870.00	14,222.43	7,735.80	112.08	115.48	87.76	-5,282.69	-1,223.03	3,123.31	2,898.06	225.24	13.866	
15,400.00	7,870.00	14,263.40	7,735.25	113.05	116.18	87.75	-5,323.66	-1,223.26	3,123.48	2,896.65	226.82	13.771	
15,500.00	7,870.00	14,357.72	7,735.57	114.70	117.80	87.75	-5,417.97	-1,224.40	3,124.31	2,894.25	230.07	13.580	
15,600.00	7,870.00	14,476.61	7,737.06	116.35	119.84	87.78	-5,536.85	-1,225.42	3,124.79	2,890.91	233.89	13.360	
15,700.00	7,870.00	14,611.39	7,739.11	118.00	122.15	87.82	-5,671.61	-1,225.49	3,124.47	2,886.40	238.07	13.124	
15,800.00	7,870.00	14,704.90	7,740.51	119.66	123.76	87.84	-5,765.10	-1,224.84	3,123.38	2,882.06	241.32	12.943	
15,900.00	7,870.00	14,791.46	7,740.27	121.32	125.25	87.84	-5,851.67	-1,224.75	3,122.94	2,878.52	244.42	12.777	
16,000.00	7,870.00	14,895.09	7,738.44	122.98	127.04	87.81	-5,955.28	-1,224.68	3,122.60	2,874.71	247.89	12.597	
16,100.00	7,870.00	14,998.27	7,737.83	124.65	128.82	87.79	-6,058.46	-1,224.49	3,122.10	2,870.74	251.36	12.421	
16,200.00	7,870.00	15,118.93	7,737.62	126.32	130.90	87.79	-6,179.11	-1,223.67	3,121.06	2,865.83	255.23	12.228	
16,300.00	7,870.00	15,201.46	7,739.24	127.99	132.33	87.82	-6,261.62	-1,223.30	3,120.19	2,861.92	258.27	12.081	
16,400.00	7,870.00	15,273.00	7,741.13	129.66	133.57	87.85	-6,333.13	-1,223.16	3,119.69	2,858.64	261.04	11.951	
16,419.03	7,870.00	15,293.77	7,741.59	129.98	133.92	87.86	-6,353.90	-1,223.21	3,119.64	2,857.91	261.73	11.919	
16,500.00	7,870.00	15,329.75	7,742.25	131.33	134.54	87.87	-6,389.87	-1,223.69	3,120.40	2,856.97	263.43	11.845	
16,600.00	7,870.00	15,378.58	7,742.89	133.01	135.38	87.89	-6,438.67	-1,225.15	3,122.93	2,857.36	265.57	11.759	
16,700.00	7,870.00	15,451.00	7,743.66	134.69	136.63	87.90	-6,511.02	-1,228.36	3,126.90	2,858.63	268.27	11.656	
16,800.00	7,870.00	15,627.42	7,745.46	136.37	139.65	87.94	-6,687.26	-1,235.64	3,131.26	2,857.64	273.61	11.444	
16,900.00	7,870.00	15,732.80	7,748.46	138.06	141.47	88.00	-6,792.58	-1,237.87	3,132.93	2,855.75	277.18	11.303	
17,000.00	7,870.00	15,859.64	7,751.78	139.74	143.66	88.06	-6,919.36	-1,239.87	3,134.08	2,852.81	281.27	11.143	
17,100.00	7,870.00	15,961.40	7,755.02	141.43	145.43	88.12	-7,021.06	-1,240.89	3,134.64	2,849.89	284.75	11.008	
17,200.00	7,870.00	16,078.02	7,758.97	143.12	147.45	88.19	-7,137.61	-1,241.98	3,135.14	2,846.54	288.60	10.863	
17,300.00	7,870.00	16,165.60	7,760.74	144.81	148.97	88.22	-7,225.17	-1,242.63	3,135.48	2,843.73	291.75	10.747	
17,400.00	7,870.00	16,234.09	7,762.40	146.50	150.15	88.25	-7,293.63	-1,243.62	3,136.51	2,842.07	294.44	10.653	
17,500.00	7,870.00	16,353.76	7,768.04	148.19	152.22	88.36	-7,413.14	-1,245.88	3,137.95	2,839.57	298.38	10.517	
17,600.00	7,870.00	16,435.66	7,772.17	149.89	153.64	88.43	-7,494.93	-1,247.34	3,139.23	2,837.84	301.40	10.416	
17,700.00	7,870.00	16,536.68	7,776.66	151.59	155.40	88.52	-7,595.83	-1,249.31	3,140.73	2,835.85	304.88	10.301	
17,800.00	7,870.00	16,643.83	7,780.78	153.29	157.25	88.59	-7,702.88	-1,251.18	3,142.03	2,833.52	308.52	10.184	
17,900.00	7,870.00	16,873.25	7,788.61	154.99	161.25	88.73	-7,932.13	-1,249.74	3,140.71	2,825.79	314.92	9.973	
18,000.00	7,870.00	16,999.80	7,791.56	156.69	163.47	88.79	-8,058.60	-1,246.16	3,137.51	2,818.58	318.93	9.838	
18,100.00	7,870.00	17,113.67	7,793.29	158.39	165.46	88.82	-8,172.37	-1,241.84	3,133.32	2,810.64	322.68	9.710	
18,200.00	7,870.00	17,228.40	7,794.20	160.09	167.47	88.83	-8,287.00	-1,237.32	3,129.04	2,802.60	326.44	9.585	
18,300.00	7,870.00	17,339.14	7,795.17	161.80	169.42	88.85	-8,397.63	-1,232.27	3,124.11	2,793.99	330.12	9.464	
18,400.00	7,870.00	17,340.00	7,795.17	163.51	169.43	88.85	-8,398.48	-1,232.23	3,120.69	2,789.10	331.59	9.411	
18,455.45	7,870.00	17,340.00	7,795.17	164.45	169.43	88.85	-8,398.48	-1,232.23	3,120.17	2,787.91	332.26	9.391	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 177-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.67	786.52	-1,031.22	1,296.97				
100.00	100.00	91.15	91.15	0.13	0.14	-52.67	786.38	-1,031.23	1,296.85	1,296.58	0.28	4,685.671	
200.00	200.00	193.57	193.57	0.49	0.30	-52.69	785.88	-1,031.28	1,296.60	1,295.80	0.80	1,630.733	
296.80	296.80	285.79	285.79	0.84	0.66	-52.71	785.40	-1,031.49	1,296.47	1,294.96	1.50	861.543	CC
300.00	300.00	288.88	288.88	0.85	0.68	-52.71	785.38	-1,031.50	1,296.47	1,294.94	1.53	848.848	
400.00	400.00	387.45	387.45	1.21	1.02	-52.74	785.03	-1,031.88	1,296.56	1,294.33	2.23	580.731	
500.00	500.00	487.01	487.01	1.57	1.37	-52.75	784.96	-1,032.11	1,296.70	1,293.76	2.94	441.176	
600.00	600.00	583.95	583.94	1.93	1.71	-52.78	784.45	-1,032.82	1,296.96	1,293.32	3.64	356.377	ES
700.00	700.00	658.64	658.62	2.29	1.97	-52.80	784.75	-1,033.85	1,298.31	1,294.05	4.26	304.805	
800.00	800.00	734.53	734.43	2.64	2.24	-52.70	787.97	-1,034.52	1,301.59	1,296.71	4.88	266.775	
900.00	900.00	807.08	806.72	3.00	2.49	-52.49	794.08	-1,034.57	1,306.78	1,301.29	5.49	238.234	
1,000.00	1,000.00	887.58	886.67	3.36	2.78	-52.17	803.42	-1,034.68	1,313.97	1,307.84	6.13	214.511	
1,100.00	1,100.00	980.37	978.69	3.72	3.12	-51.77	815.37	-1,034.90	1,322.13	1,315.31	6.82	193.926	
1,200.00	1,200.00	1,071.99	1,069.42	4.08	3.47	-51.33	828.09	-1,034.79	1,330.73	1,323.21	7.51	177.127	
1,300.00	1,300.00	1,160.95	1,157.35	4.44	3.83	-50.87	841.60	-1,034.57	1,340.13	1,331.93	8.20	163.348	
1,400.00	1,399.98	1,251.87	1,247.08	4.79	4.19	-93.19	856.22	-1,034.47	1,350.43	1,341.52	8.91	151.647	
1,500.00	1,499.84	1,349.04	1,342.99	5.15	4.60	-92.69	871.85	-1,034.87	1,361.37	1,351.74	9.64	141.271	
1,600.00	1,599.45	1,436.19	1,428.95	5.51	4.96	-92.33	886.18	-1,035.38	1,372.88	1,362.55	10.33	132.901	
1,700.00	1,698.70	1,519.80	1,511.30	5.87	5.32	-92.06	900.63	-1,036.47	1,385.61	1,374.59	11.02	125.771	
1,800.00	1,797.47	1,637.72	1,627.41	6.24	5.83	-91.97	921.08	-1,038.29	1,398.75	1,386.88	11.87	117.803	
1,900.00	1,895.62	1,735.89	1,724.36	6.63	6.25	-92.06	936.46	-1,039.85	1,410.93	1,398.28	12.65	111.514	
2,000.00	1,993.06	1,817.60	1,805.02	7.04	6.59	-92.20	949.29	-1,041.97	1,424.07	1,410.69	13.38	106.466	
2,100.00	2,089.64	1,946.67	1,932.72	7.48	7.14	-92.81	967.76	-1,045.02	1,436.32	1,421.98	14.34	100.170	
2,200.00	2,185.27	2,035.76	2,021.01	7.94	7.51	-93.30	979.46	-1,047.52	1,448.74	1,433.59	15.15	95.636	
2,300.00	2,279.82	2,140.54	2,124.82	8.45	7.94	-94.06	993.32	-1,050.82	1,462.06	1,445.99	16.06	91.011	
2,400.00	2,373.17	2,278.71	2,261.91	8.99	8.50	-95.28	1,010.36	-1,052.51	1,474.02	1,456.85	17.17	85.856	
2,500.00	2,465.21	2,383.04	2,365.54	9.58	8.92	-96.27	1,022.43	-1,052.03	1,485.13	1,466.96	18.17	81.745	
2,574.08	2,532.50	2,453.08	2,435.13	10.04	9.20	-96.98	1,030.31	-1,051.60	1,493.81	1,474.91	18.91	79.012	
2,600.00	2,555.89	2,477.19	2,459.09	10.21	9.29	-97.30	1,033.01	-1,051.48	1,496.99	1,477.82	19.17	78.100	
2,700.00	2,646.16	2,573.30	2,554.58	10.88	9.68	-98.54	1,043.90	-1,050.84	1,509.68	1,489.48	20.21	74.716	
2,800.00	2,736.44	2,672.41	2,652.86	11.57	10.08	-99.72	1,056.49	-1,048.70	1,522.56	1,501.27	21.28	71.541	
2,900.00	2,826.71	2,740.00	2,719.76	12.27	10.36	-100.49	1,066.04	-1,047.17	1,536.74	1,514.51	22.23	69.116	
3,000.00	2,916.98	2,799.89	2,778.93	13.00	10.62	-101.15	1,075.23	-1,046.76	1,553.38	1,530.23	23.15	67.097	
3,100.00	3,007.25	2,868.00	2,846.09	13.73	10.92	-101.90	1,086.53	-1,047.80	1,572.77	1,548.67	24.11	65.243	
3,200.00	3,097.52	2,958.27	2,935.11	14.48	11.31	-102.89	1,101.30	-1,050.04	1,593.45	1,568.27	25.18	63.279	
3,300.00	3,187.80	3,061.50	3,037.05	15.23	11.76	-104.01	1,117.41	-1,052.64	1,614.39	1,588.07	26.33	61.323	
3,400.00	3,278.07	3,168.24	3,142.64	15.99	12.22	-105.19	1,132.80	-1,055.05	1,635.16	1,607.67	27.48	59.496	
3,500.00	3,368.34	3,274.46	3,247.95	16.76	12.66	-106.36	1,146.55	-1,057.20	1,655.71	1,627.08	28.63	57.835	
3,600.00	3,458.61	3,379.80	3,352.56	17.54	13.08	-107.54	1,158.79	-1,058.97	1,676.03	1,646.28	29.76	56.322	
3,700.00	3,548.89	3,471.39	3,443.42	18.32	13.46	-108.51	1,170.22	-1,059.94	1,696.70	1,665.87	30.82	55.044	
3,800.00	3,639.16	3,566.12	3,537.16	19.10	13.86	-109.43	1,183.88	-1,060.28	1,717.91	1,686.00	31.91	53.838	
3,900.00	3,729.43	3,671.28	3,641.37	19.89	14.30	-110.45	1,198.03	-1,060.65	1,739.25	1,706.21	33.04	52.633	
4,000.00	3,819.70	3,779.84	3,749.22	20.69	14.73	-111.55	1,210.34	-1,060.83	1,760.22	1,726.05	34.17	51.507	
4,100.00	3,909.98	3,858.37	3,827.37	21.48	15.04	-112.37	1,218.08	-1,061.16	1,781.53	1,746.40	35.14	50.705	
4,200.00	4,000.25	3,930.14	3,898.81	22.28	15.31	-113.12	1,224.71	-1,062.58	1,804.53	1,768.49	36.04	50.066	
4,300.00	4,090.52	4,023.28	3,991.55	23.08	15.67	-114.10	1,232.94	-1,065.29	1,828.80	1,791.75	37.05	49.366	
4,400.00	4,180.79	4,119.67	4,087.65	23.88	16.03	-115.12	1,239.96	-1,067.61	1,852.77	1,814.72	38.05	48.697	
4,500.00	4,271.06	4,198.17	4,165.88	24.69	16.32	-115.93	1,245.99	-1,070.06	1,878.01	1,839.06	38.95	48.215	
4,600.00	4,361.34	4,342.23	4,308.90	25.49	16.90	-117.20	1,262.91	-1,072.16	1,903.38	1,863.14	40.24	47.298	
4,700.00	4,451.61	4,440.43	4,406.16	26.30	17.31	-117.95	1,276.48	-1,071.13	1,927.00	1,885.70	41.30	46.656	
4,800.00	4,541.88	4,510.83	4,475.91	27.11	17.61	-118.50	1,285.96	-1,070.66	1,951.27	1,909.07	42.20	46.241	
4,900.00	4,632.15	4,579.07	4,543.46	27.92	17.89	-119.00	1,295.66	-1,071.21	1,977.24	1,934.17	43.07	45.911	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 177-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,661.10	4,624.73	28.74	18.23	-119.62	1,306.61	-1,072.74	2,004.34	1,960.34	44.00	45.550	
5,100.00	4,812.70	4,752.72	4,715.74	29.55	18.61	-120.36	1,316.99	-1,074.92	2,031.92	1,986.94	44.97	45.179	
5,200.00	4,902.97	4,837.72	4,800.12	30.37	18.95	-121.01	1,326.98	-1,077.15	2,060.10	2,014.20	45.90	44.879	
5,300.00	4,993.24	4,928.21	4,889.44	31.18	19.34	-121.59	1,341.25	-1,079.13	2,088.72	2,041.82	46.90	44.537	
5,400.00	5,083.51	5,013.59	4,973.33	32.00	19.73	-122.05	1,357.06	-1,080.99	2,117.86	2,069.98	47.88	44.230	
5,500.00	5,173.79	5,111.98	5,070.13	32.82	20.18	-122.60	1,374.54	-1,083.29	2,147.24	2,098.29	48.95	43.867	
5,600.00	5,264.06	5,216.62	5,173.58	33.63	20.62	-123.24	1,390.01	-1,085.72	2,176.44	2,126.42	50.02	43.511	
5,700.00	5,354.33	5,319.52	5,275.79	34.45	21.04	-123.96	1,401.66	-1,087.94	2,205.36	2,154.33	51.03	43.215	
5,800.00	5,444.60	5,410.32	5,366.18	35.27	21.39	-124.62	1,410.02	-1,089.88	2,234.37	2,182.42	51.94	43.016	
5,900.00	5,534.88	5,491.07	5,446.40	36.09	21.72	-125.15	1,419.03	-1,091.71	2,263.93	2,211.12	52.81	42.872	
6,000.00	5,625.15	5,574.59	5,528.92	36.91	22.07	-125.61	1,431.76	-1,093.83	2,294.24	2,240.53	53.72	42.710	
6,100.00	5,715.42	5,667.02	5,620.37	37.74	22.46	-126.13	1,444.85	-1,096.44	2,324.92	2,270.24	54.68	42.521	
6,200.00	5,805.69	5,820.19	5,772.57	38.56	23.08	-127.07	1,461.76	-1,099.47	2,355.04	2,299.05	55.98	42.067	
6,300.00	5,895.96	5,967.64	5,918.88	39.38	23.68	-127.90	1,479.91	-1,098.06	2,382.43	2,325.18	57.25	41.617	
6,400.00	5,986.24	6,041.78	5,992.34	40.20	23.99	-128.28	1,489.88	-1,096.83	2,409.48	2,351.39	58.08	41.483	
6,500.00	6,076.51	6,105.66	6,055.65	41.03	24.25	-128.61	1,498.38	-1,096.45	2,437.70	2,378.85	58.84	41.426	
6,600.00	6,166.78	6,168.78	6,118.30	41.85	24.51	-128.95	1,506.07	-1,096.95	2,467.32	2,407.74	59.58	41.411	
6,700.00	6,257.05	6,243.90	6,192.83	42.67	24.82	-129.34	1,515.39	-1,098.23	2,497.98	2,437.60	60.39	41.368	
6,800.00	6,347.33	6,330.39	6,278.66	43.50	25.17	-129.79	1,525.85	-1,100.11	2,529.25	2,468.00	61.26	41.289	
6,900.00	6,437.60	6,444.72	6,392.19	44.32	25.63	-130.37	1,539.25	-1,101.94	2,560.09	2,497.78	62.31	41.088	
7,000.00	6,527.87	6,511.00	6,458.05	45.15	25.90	-130.71	1,546.54	-1,103.29	2,591.55	2,528.53	63.03	41.117	
7,100.00	6,618.14	6,580.57	6,527.28	45.98	26.17	-131.09	1,553.10	-1,105.34	2,624.07	2,560.32	63.74	41.166	
7,200.00	6,708.41	6,661.58	6,607.98	46.80	26.47	-131.55	1,559.56	-1,108.19	2,657.34	2,592.82	64.51	41.190	
7,300.00	6,798.69	6,863.32	6,808.92	47.63	27.24	-132.63	1,576.95	-1,110.47	2,688.05	2,622.00	66.05	40.697	
7,400.00	6,888.96	6,928.44	6,873.87	48.45	27.47	-132.98	1,581.73	-1,110.47	2,718.52	2,651.80	66.72	40.744	
7,500.00	6,979.23	6,998.39	6,943.73	49.28	27.71	-133.40	1,585.01	-1,111.07	2,750.09	2,682.72	67.38	40.816	
7,600.00	7,069.50	7,135.00	7,079.84	50.11	28.07	-134.50	1,576.19	-1,110.91	2,781.93	2,713.75	68.18	40.800	
7,692.09	7,152.63	7,166.76	7,111.02	50.87	28.12	-134.83	1,570.16	-1,110.38	2,811.24	2,742.75	68.49	41.049	
7,700.00	7,159.79	7,168.97	7,113.17	50.93	28.12	-136.35	1,569.68	-1,110.36	2,813.85	2,745.35	68.51	41.073	
7,750.00	7,205.70	7,183.07	7,126.90	51.32	28.14	-147.34	1,566.48	-1,110.32	2,830.71	2,762.08	68.63	41.245	
7,800.00	7,252.52	7,224.00	7,166.32	51.66	28.21	-161.26	1,555.50	-1,110.83	2,848.40	2,779.63	68.77	41.418	
7,850.00	7,299.89	7,224.00	7,166.32	51.96	28.21	-177.35	1,555.50	-1,110.83	2,865.74	2,796.94	68.80	41.652	
7,900.00	7,347.44	7,224.00	7,166.32	52.20	28.21	165.41	1,555.50	-1,110.83	2,883.45	2,814.66	68.79	41.915	
7,950.00	7,394.83	7,224.00	7,166.32	52.39	28.21	149.17	1,555.50	-1,110.83	2,901.40	2,832.66	68.75	42.203	
8,000.00	7,441.68	7,253.63	7,194.41	52.53	28.24	135.35	1,546.15	-1,111.83	2,918.94	2,850.21	68.73	42.468	
8,050.00	7,487.65	7,267.30	7,207.25	52.62	28.25	124.33	1,541.49	-1,112.50	2,936.38	2,867.71	68.67	42.762	
8,100.00	7,532.37	7,280.96	7,219.99	52.67	28.26	115.65	1,536.63	-1,113.29	2,953.42	2,884.84	68.59	43.061	
8,150.00	7,575.52	7,313.00	7,249.50	52.67	28.29	108.82	1,524.38	-1,115.65	2,970.16	2,901.63	68.52	43.345	
8,200.00	7,616.76	7,313.00	7,249.50	52.63	28.29	103.25	1,524.38	-1,115.65	2,985.89	2,917.50	68.39	43.657	
8,250.00	7,655.77	7,313.00	7,249.50	52.55	28.29	98.65	1,524.38	-1,115.65	3,001.11	2,932.85	68.25	43.970	
8,300.00	7,692.27	7,344.46	7,278.06	52.44	28.31	95.03	1,511.48	-1,118.49	3,015.31	2,947.15	68.16	44.236	
8,350.00	7,725.97	7,363.32	7,295.01	52.29	28.32	91.99	1,503.44	-1,120.37	3,028.58	2,960.53	68.06	44.502	
8,400.00	7,756.62	7,402.00	7,329.39	52.12	28.34	89.66	1,486.25	-1,124.63	3,040.95	2,972.97	67.98	44.732	
8,450.00	7,783.98	7,402.00	7,329.39	51.92	28.34	87.42	1,486.25	-1,124.63	3,051.89	2,984.04	67.85	44.977	
8,500.00	7,807.85	7,446.43	7,368.22	51.70	28.36	86.04	1,465.25	-1,129.70	3,061.66	2,993.86	67.80	45.159	
8,550.00	7,828.05	8,550.00	7,526.14	51.45	28.46	86.56	1,352.74	-1,144.78	3,069.11	3,001.33	67.78	45.284	
8,600.00	7,844.41	7,730.59	7,586.92	51.20	28.40	86.29	1,288.14	-1,146.65	3,073.04	3,005.61	67.42	45.578	
8,650.00	7,856.82	7,785.06	7,618.31	50.93	28.39	86.03	1,243.65	-1,146.93	3,075.49	3,008.28	67.22	45.755	
8,700.00	7,865.18	7,868.46	7,661.53	50.65	28.41	86.30	1,172.34	-1,145.98	3,075.87	3,008.94	66.93	45.957	
8,750.00	7,869.43	7,918.53	7,685.64	50.36	28.44	86.67	1,128.47	-1,144.95	3,074.54	3,007.76	66.79	46.036	
8,776.25	7,870.00	7,944.48	7,697.73	50.21	28.45	86.99	1,105.52	-1,144.36	3,073.24	3,006.52	66.72	46.063	
8,800.00	7,870.00	7,952.32	7,701.30	50.08	28.47	87.05	1,098.54	-1,144.20	3,071.96	3,005.24	66.72	46.044	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 177-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,204.00	7,781.01	49.53	28.92	88.54	861.65	-1,131.61	3,065.72	2,999.52	66.20	46.309	
9,000.00	7,870.00	8,257.71	7,787.25	49.01	29.08	88.65	808.57	-1,126.38	3,056.00	2,989.72	66.27	46.111	
9,100.00	7,870.00	8,293.00	7,789.70	48.52	29.19	88.70	773.44	-1,124.20	3,049.03	2,982.61	66.42	45.903	
9,200.00	7,870.00	8,355.61	7,791.83	48.06	29.42	88.73	710.93	-1,121.31	3,043.85	2,977.24	66.61	45.695	
9,300.00	7,870.00	8,438.48	7,792.15	47.63	29.77	88.74	628.14	-1,117.82	3,039.29	2,972.40	66.89	45.437	
9,400.00	7,870.00	8,512.45	7,792.17	47.22	30.14	88.74	554.22	-1,115.17	3,035.39	2,968.10	67.29	45.109	
9,500.00	7,870.00	8,580.68	7,792.78	46.83	30.52	88.75	486.01	-1,113.44	3,032.49	2,964.70	67.79	44.731	
9,600.00	7,870.00	8,649.00	7,793.17	46.48	30.95	88.76	417.70	-1,112.42	3,030.65	2,962.25	68.40	44.309	
9,700.00	7,870.00	8,726.72	7,792.58	46.14	31.49	88.74	339.99	-1,111.94	3,029.70	2,960.55	69.15	43.815	
9,800.00	7,870.00	8,821.74	7,789.73	45.83	32.21	88.69	245.01	-1,111.75	3,029.23	2,959.13	70.10	43.214	
9,900.00	7,870.00	8,916.78	7,785.47	45.54	33.01	88.61	150.07	-1,111.64	3,028.88	2,957.69	71.19	42.546	
9,925.85	7,870.00	8,934.72	7,784.72	45.46	33.17	88.59	132.14	-1,111.66	3,028.85	2,957.38	71.46	42.383	
10,000.00	7,870.00	8,986.06	7,783.16	45.27	33.63	88.57	80.83	-1,111.99	3,029.13	2,956.89	72.24	41.932	
10,100.00	7,870.00	9,055.46	7,781.68	45.03	34.29	88.54	11.45	-1,113.07	3,030.39	2,957.01	73.37	41.301	
10,200.00	7,870.00	10,200.00	7,768.01	44.82	46.53	88.28	-173.12	-1,115.10	3,031.86	2,945.89	85.97	35.265	
10,300.00	7,870.00	9,362.00	7,761.22	44.66	37.53	88.15	-294.22	-1,112.30	3,029.16	2,951.62	77.54	39.065	
10,400.00	7,870.00	9,418.15	7,761.16	44.56	38.18	88.15	-350.35	-1,111.64	3,027.87	2,948.98	78.89	38.379	
10,414.56	7,870.00	9,424.37	7,761.30	44.55	38.26	88.15	-356.58	-1,111.66	3,027.85	2,948.77	79.07	38.291	
10,500.00	7,870.00	9,469.37	7,763.04	44.58	38.78	88.18	-401.54	-1,112.25	3,028.51	2,948.27	80.23	37.746	
10,600.00	7,870.00	9,550.54	7,766.93	44.82	39.76	88.26	-482.60	-1,114.01	3,030.18	2,948.19	81.99	36.956	
10,700.00	7,870.00	9,645.48	7,770.46	45.36	40.93	88.33	-577.44	-1,116.40	3,032.24	2,948.24	84.00	36.096	
10,800.00	7,870.00	9,791.23	7,772.62	46.15	42.79	88.37	-723.14	-1,119.47	3,034.13	2,947.33	86.80	34.956	
10,900.00	7,870.00	9,917.70	7,775.68	47.09	44.47	88.43	-849.57	-1,120.02	3,034.12	2,944.65	89.47	33.913	
11,000.00	7,870.00	10,012.71	7,776.02	48.13	45.76	88.43	-944.57	-1,120.16	3,033.92	2,942.16	91.76	33.065	
11,022.53	7,870.00	10,032.66	7,776.17	48.37	46.04	88.44	-964.52	-1,120.22	3,033.91	2,941.64	92.26	32.883	
11,100.00	7,870.00	10,101.77	7,777.43	49.22	46.99	88.46	-1,033.62	-1,120.59	3,034.02	2,939.99	94.02	32.269	
11,200.00	7,870.00	10,198.01	7,779.43	50.37	48.35	88.50	-1,129.83	-1,121.36	3,034.42	2,937.96	96.46	31.457	
11,300.00	7,870.00	10,296.71	7,779.89	51.55	49.76	88.51	-1,228.53	-1,122.04	3,034.76	2,935.76	99.00	30.655	
11,400.00	7,870.00	10,384.01	7,781.75	52.76	51.02	88.54	-1,315.81	-1,122.95	3,035.40	2,934.00	101.40	29.935	
11,500.00	7,870.00	10,463.83	7,783.54	54.00	52.19	88.58	-1,395.59	-1,124.16	3,036.54	2,932.83	103.71	29.279	
11,600.00	7,870.00	10,542.38	7,783.49	55.27	53.35	88.58	-1,474.12	-1,125.99	3,038.50	2,932.48	106.02	28.659	
11,700.00	7,870.00	10,636.85	7,784.81	56.56	54.75	88.60	-1,568.54	-1,128.45	3,040.74	2,932.08	108.66	27.983	
11,800.00	7,870.00	10,699.00	7,786.06	57.88	55.68	88.63	-1,630.66	-1,130.36	3,043.56	2,932.82	110.73	27.486	
11,900.00	7,870.00	10,757.20	7,786.34	59.21	56.56	88.63	-1,688.80	-1,132.88	3,047.69	2,934.96	112.73	27.036	
12,000.00	7,870.00	11,162.55	7,785.58	60.57	62.83	88.62	-2,093.71	-1,129.55	3,042.94	2,921.61	121.33	25.080	
12,100.00	7,870.00	11,211.45	7,786.53	61.94	63.61	88.63	-2,142.57	-1,127.71	3,038.80	2,915.43	123.37	24.632	
12,200.00	7,870.00	11,286.28	7,788.33	63.33	64.80	88.67	-2,217.36	-1,126.03	3,036.09	2,910.20	125.88	24.118	
12,300.00	7,870.00	11,368.28	7,790.06	64.74	66.11	88.70	-2,299.32	-1,124.47	3,033.82	2,905.27	128.55	23.600	
12,400.00	7,870.00	11,480.25	7,789.43	66.16	67.90	88.68	-2,411.28	-1,122.86	3,032.09	2,900.28	131.81	23.004	
12,500.00	7,870.00	11,586.58	7,792.50	67.59	69.61	88.74	-2,517.53	-1,120.64	3,029.59	2,894.59	135.00	22.442	
12,600.00	7,870.00	11,674.31	7,798.45	69.04	71.04	88.85	-2,605.04	-1,119.05	3,027.29	2,889.43	137.86	21.959	
12,700.00	7,870.00	11,757.64	7,805.30	70.51	72.39	88.98	-2,688.07	-1,117.96	3,025.48	2,884.83	140.66	21.510	
12,800.00	7,870.00	11,842.06	7,811.81	71.98	73.77	89.11	-2,772.24	-1,117.30	3,024.23	2,880.75	143.48	21.078	
12,900.00	7,870.00	11,943.05	7,816.74	73.47	75.43	89.20	-2,873.11	-1,116.74	3,023.26	2,876.61	146.65	20.615	
13,000.00	7,870.00	12,068.65	7,819.42	74.96	77.49	89.25	-2,998.66	-1,115.31	3,021.74	2,871.41	150.34	20.100	
13,100.00	7,870.00	12,178.70	7,818.36	76.47	79.30	89.23	-3,108.69	-1,113.42	3,019.70	2,865.99	153.71	19.645	
13,200.00	7,870.00	12,243.43	7,815.92	77.99	80.37	89.18	-3,173.36	-1,112.32	3,017.84	2,861.69	156.15	19.326	
13,256.37	7,870.00	12,268.44	7,814.79	78.85	80.78	89.16	-3,198.34	-1,112.26	3,017.55	2,860.27	157.28	19.186	
13,300.00	7,870.00	12,302.00	7,813.17	79.51	81.34	89.13	-3,231.86	-1,112.59	3,017.80	2,859.35	158.45	19.046	
13,400.00	7,870.00	12,400.46	7,809.06	81.05	82.96	89.05	-3,330.22	-1,113.64	3,018.60	2,857.00	161.60	18.679	
13,500.00	7,870.00	12,480.00	7,807.74	82.59	84.28	89.03	-3,409.75	-1,114.51	3,019.37	2,855.01	164.36	18.371	
13,600.00	7,870.00	12,640.42	7,807.12	84.14	86.95	89.02	-3,570.16	-1,114.94	3,019.22	2,850.32	168.90	17.876	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 177-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,700.00	7,870.00	12,734.65	7,804.97	85.70	88.52	88.97	-3,664.36	-1,114.35	3,018.30	2,846.29	172.01	17.547	
13,768.13	7,870.00	12,770.17	7,804.95	86.76	89.11	88.97	-3,699.88	-1,114.33	3,018.10	2,844.59	173.51	17.394	
13,800.00	7,870.00	12,783.50	7,805.05	87.26	89.34	88.98	-3,713.21	-1,114.47	3,018.30	2,844.17	174.13	17.333	
13,900.00	7,870.00	12,837.00	7,806.04	88.83	90.23	88.99	-3,766.68	-1,115.84	3,020.28	2,843.95	176.33	17.129	
14,000.00	7,870.00	12,899.26	7,807.68	90.41	91.26	89.03	-3,828.87	-1,118.30	3,023.68	2,844.99	178.70	16.921	
14,100.00	7,870.00	12,974.35	7,809.29	92.00	92.51	89.06	-3,903.86	-1,121.65	3,027.78	2,846.42	181.36	16.695	
14,200.00	7,870.00	13,191.54	7,811.38	93.59	96.14	89.10	-4,120.92	-1,128.13	3,030.41	2,843.02	187.40	16.171	
14,300.00	7,870.00	13,523.44	7,818.32	95.18	101.77	89.23	-4,452.44	-1,122.72	3,031.01	2,835.47	195.54	15.501	
14,400.00	7,870.00	13,580.27	7,821.21	96.79	102.74	89.28	-4,509.10	-1,119.32	3,024.70	2,826.63	198.06	15.271	
14,500.00	7,870.00	13,639.00	7,823.71	98.39	103.75	89.33	-4,567.72	-1,116.91	3,020.05	2,819.46	200.59	15.056	
14,600.00	7,870.00	13,674.17	7,824.86	100.00	104.35	89.35	-4,602.86	-1,116.08	3,017.08	2,814.51	202.57	14.894	
14,700.00	7,870.00	13,728.00	7,825.86	101.62	105.26	89.37	-4,656.68	-1,115.79	3,016.02	2,811.13	204.89	14.720	
14,714.66	7,870.00	13,728.00	7,825.86	101.86	105.26	89.37	-4,656.68	-1,115.79	3,015.99	2,810.94	205.05	14.709	
14,800.00	7,870.00	13,795.27	7,826.13	103.24	106.41	89.38	-4,723.94	-1,116.30	3,016.32	2,808.84	207.48	14.538	
14,900.00	7,870.00	13,950.29	7,825.23	104.87	109.05	89.36	-4,878.95	-1,115.23	3,014.91	2,802.83	212.07	14.216	
15,000.00	7,870.00	14,014.40	7,825.66	106.50	110.14	89.37	-4,943.05	-1,115.25	3,014.48	2,799.86	214.62	14.046	
15,100.00	7,870.00	14,133.33	7,826.26	108.13	112.17	89.38	-5,061.99	-1,114.90	3,013.79	2,795.37	218.41	13.799	
15,159.61	7,870.00	14,173.00	7,827.30	109.11	112.85	89.40	-5,101.64	-1,114.84	3,013.51	2,793.54	219.96	13.700	
15,200.00	7,870.00	14,197.58	7,828.02	109.77	113.27	89.41	-5,126.21	-1,114.94	3,013.56	2,792.61	220.96	13.639	
15,300.00	7,870.00	14,263.00	7,828.82	111.41	114.39	89.43	-5,191.61	-1,116.32	3,015.10	2,791.60	223.50	13.491	
15,400.00	7,870.00	14,459.44	7,825.91	113.05	117.75	89.37	-5,387.99	-1,116.69	3,014.75	2,785.66	229.10	13.159	
15,500.00	7,870.00	14,530.00	7,824.70	114.70	118.96	89.35	-5,458.54	-1,116.31	3,013.84	2,782.03	231.81	13.001	
15,600.00	7,870.00	14,652.21	7,825.76	116.35	121.06	89.37	-5,580.73	-1,115.16	3,012.46	2,776.76	235.70	12.781	
15,694.48	7,870.00	14,708.00	7,827.07	117.91	122.02	89.39	-5,636.51	-1,115.02	3,011.87	2,773.85	238.02	12.654	
15,700.00	7,870.00	14,708.00	7,827.07	118.00	122.02	89.39	-5,636.51	-1,115.02	3,011.88	2,773.80	238.08	12.651	
15,800.00	7,870.00	14,783.79	7,828.73	119.66	123.32	89.42	-5,712.28	-1,115.69	3,012.42	2,771.52	240.90	12.505	
15,900.00	7,870.00	14,887.65	7,829.02	121.32	125.10	89.43	-5,816.13	-1,117.09	3,013.43	2,769.05	244.38	12.331	
16,000.00	7,870.00	14,948.95	7,828.69	122.98	126.15	89.42	-5,877.41	-1,118.23	3,014.95	2,768.12	246.82	12.215	
16,100.00	7,870.00	15,032.37	7,829.36	124.65	127.58	89.44	-5,960.79	-1,120.69	3,017.52	2,767.72	249.80	12.080	
16,200.00	7,870.00	15,156.14	7,829.54	126.32	129.69	89.44	-6,084.51	-1,124.10	3,019.95	2,766.16	253.79	11.899	
16,300.00	7,870.00	15,335.07	7,829.52	127.99	132.78	89.44	-6,263.43	-1,125.41	3,020.19	2,761.10	259.09	11.657	
16,340.44	7,870.00	15,354.09	7,829.51	128.66	133.10	89.44	-6,282.44	-1,125.42	3,020.06	2,760.09	259.97	11.617	
16,400.00	7,870.00	15,384.98	7,829.86	129.66	133.64	89.45	-6,313.33	-1,125.68	3,020.34	2,759.03	261.32	11.558	
16,500.00	7,870.00	15,455.08	7,832.03	131.33	134.84	89.49	-6,383.39	-1,127.16	3,022.00	2,758.00	264.00	11.447	
16,600.00	7,870.00	15,551.82	7,834.96	133.01	136.51	89.54	-6,480.06	-1,129.32	3,023.87	2,756.54	267.33	11.311	
16,700.00	7,870.00	15,680.31	7,836.85	134.69	138.72	89.58	-6,608.49	-1,132.23	3,025.89	2,754.42	271.46	11.147	
16,800.00	7,870.00	15,774.52	7,839.42	136.37	140.34	89.63	-6,702.65	-1,133.64	3,027.02	2,752.28	274.75	11.017	
16,900.00	7,870.00	15,840.54	7,840.11	138.06	141.48	89.64	-6,768.65	-1,135.08	3,028.87	2,751.56	277.31	10.922	
17,000.00	7,870.00	16,076.86	7,841.88	139.74	145.57	89.68	-7,004.92	-1,135.40	3,028.14	2,744.14	284.00	10.663	
17,100.00	7,870.00	16,141.17	7,843.62	141.43	146.69	89.71	-7,069.20	-1,134.68	3,026.66	2,740.02	286.64	10.559	
17,192.45	7,870.00	16,206.42	7,845.66	142.99	147.82	89.75	-7,134.42	-1,134.62	3,026.25	2,737.06	289.19	10.465	
17,200.00	7,870.00	16,211.76	7,845.82	143.12	147.92	89.75	-7,139.75	-1,134.64	3,026.25	2,736.85	289.40	10.457	
17,300.00	7,870.00	16,284.24	7,847.19	144.81	149.17	89.78	-7,212.22	-1,135.28	3,026.78	2,734.62	292.17	10.360	
17,400.00	7,870.00	16,368.33	7,847.20	146.50	150.62	89.78	-7,296.29	-1,136.68	3,028.10	2,732.89	295.21	10.258	
17,500.00	7,870.00	16,507.94	7,849.20	148.19	153.04	89.81	-7,435.87	-1,138.53	3,029.13	2,729.51	299.62	10.110	
17,600.00	7,870.00	16,623.44	7,853.76	149.89	155.05	89.90	-7,551.28	-1,138.98	3,029.19	2,725.74	303.45	9.982	
17,700.00	7,870.00	16,721.21	7,857.38	151.59	156.75	89.97	-7,648.98	-1,138.85	3,028.71	2,721.86	306.86	9.870	
17,800.00	7,870.00	16,842.16	7,859.75	153.29	158.85	90.01	-7,769.90	-1,138.88	3,028.45	2,717.65	310.80	9.744	
17,900.00	7,870.00	16,938.95	7,862.33	154.99	160.54	90.06	-7,866.66	-1,138.34	3,027.55	2,713.36	314.19	9.636	
17,965.41	7,870.00	16,979.68	7,863.15	156.10	161.25	90.08	-7,907.38	-1,138.32	3,027.30	2,711.43	315.87	9.584	
18,000.00	7,870.00	17,001.73	7,863.31	156.69	161.63	90.08	-7,929.43	-1,138.44	3,027.37	2,710.61	316.76	9.557	
18,100.00	7,870.00	17,137.68	7,864.93	158.39	163.99	90.11	-8,065.35	-1,139.13	3,027.66	2,706.59	321.07	9.430	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY

Survey Program: 177-MWD OWSG

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.00	7,870.00	17,265.20	7,869.20	160.09	166.22	90.19	-8,192.80	-1,137.57	3,026.02	2,700.84	325.17	9.306	
18,300.00	7,870.00	17,356.17	7,869.67	161.80	167.81	90.20	-8,283.75	-1,136.48	3,024.49	2,696.05	328.44	9.209	
18,400.00	7,870.00	17,472.26	7,867.20	163.51	169.83	90.16	-8,399.80	-1,134.91	3,022.78	2,690.53	332.25	9.098	
18,455.45	7,870.00	17,471.00	7,867.23	164.45	169.81	90.16	-8,398.54	-1,134.93	3,022.25	2,689.39	332.86	9.080	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-52.40	786.52	-1,021.14	1,288.97				
100.00	100.00	88.02	88.02	0.13	0.15	-52.39	786.56	-1,021.15	1,288.96	1,288.68	0.28	4,590.651	CC
200.00	200.00	186.92	186.92	0.49	0.31	-52.39	786.68	-1,021.21	1,289.08	1,288.28	0.80	1,603.984	
300.00	300.00	285.82	285.82	0.85	0.48	-52.39	786.89	-1,021.30	1,289.28	1,287.96	1.33	971.896	
400.00	400.00	382.03	382.03	1.21	0.76	-52.38	787.26	-1,021.44	1,289.64	1,287.68	1.97	655.279	ES
500.00	500.00	476.95	476.95	1.57	1.10	-52.36	788.06	-1,021.71	1,290.38	1,287.71	2.67	483.866	
600.00	600.00	571.86	571.85	1.93	1.44	-52.32	789.31	-1,022.11	1,291.51	1,288.15	3.37	383.760	
700.00	700.00	674.56	674.54	2.29	1.81	-52.28	790.92	-1,022.51	1,292.78	1,288.69	4.09	315.948	
800.00	800.00	764.33	764.29	2.64	2.13	-52.25	792.32	-1,023.14	1,294.29	1,289.52	4.77	271.258	
900.00	900.00	864.66	864.59	3.00	2.49	-52.20	794.36	-1,024.03	1,296.24	1,290.75	5.49	236.139	
1,000.00	1,000.00	971.77	971.68	3.36	2.87	-52.15	796.25	-1,024.55	1,297.69	1,291.46	6.23	208.247	
1,100.00	1,100.00	1,068.88	1,068.72	3.72	3.22	-52.00	799.80	-1,023.62	1,299.18	1,292.25	6.94	187.290	
1,200.00	1,200.00	1,179.75	1,179.46	4.08	3.62	-51.77	804.75	-1,021.53	1,300.48	1,292.78	7.69	169.077	
1,300.00	1,300.00	1,284.09	1,283.66	4.44	3.99	-51.53	809.43	-1,018.54	1,301.01	1,292.59	8.42	154.446	
1,400.00	1,399.98	1,370.50	1,369.86	4.79	4.30	-94.25	814.57	-1,015.53	1,302.12	1,293.03	9.09	143.216	
1,500.00	1,499.84	1,461.14	1,460.05	5.15	4.64	-94.03	822.45	-1,011.33	1,304.35	1,294.57	9.78	133.370	
1,600.00	1,599.45	1,554.63	1,552.75	5.51	4.99	-93.80	833.14	-1,005.65	1,307.41	1,296.92	10.49	124.634	
1,700.00	1,698.70	1,644.82	1,641.83	5.87	5.34	-93.60	845.64	-999.03	1,311.29	1,300.08	11.20	117.045	
1,800.00	1,797.47	1,724.00	1,719.87	6.24	5.66	-93.47	857.81	-993.53	1,316.63	1,304.74	11.89	110.757	
1,900.00	1,895.62	1,805.08	1,799.78	6.63	5.99	-93.44	870.79	-989.03	1,323.68	1,311.08	12.60	105.085	
2,000.00	1,993.06	1,886.12	1,879.65	7.04	6.32	-93.52	884.04	-985.71	1,332.30	1,318.98	13.32	99.993	
2,100.00	2,089.64	1,964.65	1,957.07	7.48	6.65	-93.70	897.07	-983.79	1,342.64	1,328.58	14.06	95.476	
2,200.00	2,185.27	2,063.26	2,054.31	7.94	7.05	-94.14	913.42	-982.67	1,354.35	1,339.42	14.93	90.737	
2,300.00	2,279.82	2,192.21	2,181.33	8.45	7.60	-94.88	935.15	-978.35	1,364.90	1,348.92	15.98	85.412	
2,400.00	2,373.17	2,284.70	2,272.28	8.99	8.00	-95.42	951.39	-973.91	1,375.31	1,358.41	16.91	81.332	
2,500.00	2,465.21	2,381.30	2,367.28	9.58	8.42	-96.12	968.28	-969.46	1,386.50	1,368.59	17.90	77.437	
2,574.08	2,532.50	2,451.19	2,436.11	10.04	8.72	-96.70	980.12	-966.56	1,395.33	1,376.67	18.66	74.767	
2,600.00	2,555.89	2,475.64	2,460.19	10.21	8.83	-96.98	984.20	-965.60	1,398.54	1,379.61	18.93	73.872	
2,700.00	2,646.16	2,573.58	2,556.70	10.88	9.25	-98.10	1,000.41	-961.90	1,411.29	1,391.29	20.01	70.545	
2,800.00	2,736.44	2,724.38	2,705.28	11.57	9.91	-99.75	1,024.54	-952.99	1,422.61	1,401.25	21.35	66.618	
2,900.00	2,826.71	2,799.82	2,779.30	12.27	10.25	-100.48	1,037.55	-946.46	1,432.82	1,410.45	22.37	64.049	
3,000.00	2,916.98	2,876.74	2,854.94	13.00	10.59	-101.26	1,050.70	-941.69	1,445.29	1,421.89	23.40	61.777	
3,100.00	3,007.25	2,966.78	2,943.77	13.73	10.98	-102.24	1,064.81	-937.55	1,458.91	1,434.43	24.48	59.597	
3,200.00	3,097.52	3,101.64	3,077.27	14.48	11.55	-103.77	1,082.96	-931.76	1,472.48	1,446.71	25.77	57.145	
3,300.00	3,187.80	3,217.62	3,191.93	15.23	12.04	-105.02	1,098.01	-923.18	1,483.49	1,456.52	26.97	55.005	
3,400.00	3,278.07	3,294.79	3,268.02	15.99	12.38	-105.79	1,109.46	-917.21	1,495.55	1,467.54	28.01	53.399	
3,500.00	3,368.34	3,384.40	3,356.54	16.76	12.77	-106.71	1,122.08	-911.33	1,508.78	1,479.69	29.10	51.855	
3,600.00	3,458.61	3,476.77	3,447.63	17.54	13.17	-107.61	1,136.04	-905.09	1,522.70	1,492.50	30.20	50.422	
3,700.00	3,548.89	3,563.89	3,533.62	18.32	13.55	-108.46	1,148.95	-899.72	1,537.45	1,506.18	31.27	49.166	
3,800.00	3,639.16	3,664.70	3,633.43	19.10	13.98	-109.50	1,162.14	-894.66	1,553.03	1,520.64	32.39	47.949	
3,900.00	3,729.43	3,763.32	3,731.10	19.89	14.39	-110.50	1,174.49	-888.69	1,567.95	1,534.46	33.49	46.816	
4,000.00	3,819.70	3,834.80	3,801.65	20.69	14.70	-111.16	1,185.20	-884.68	1,584.51	1,550.05	34.46	45.976	
4,100.00	3,909.98	3,910.69	3,876.36	21.48	15.04	-111.81	1,198.01	-880.96	1,602.70	1,567.25	35.46	45.200	
4,200.00	4,000.25	3,984.96	3,949.65	22.28	15.36	-112.47	1,209.79	-878.57	1,622.44	1,586.01	36.42	44.544	
4,300.00	4,090.52	4,094.88	4,058.37	23.08	15.83	-113.49	1,225.68	-875.70	1,642.69	1,605.11	37.58	43.716	
4,400.00	4,180.79	4,202.49	4,164.43	23.88	16.31	-114.37	1,243.41	-871.55	1,662.75	1,624.01	38.73	42.929	
4,500.00	4,271.06	4,300.35	4,260.71	24.69	16.75	-115.12	1,260.17	-866.49	1,682.04	1,642.20	39.84	42.220	
4,600.00	4,361.34	4,386.70	4,345.65	25.49	17.14	-115.77	1,275.26	-862.74	1,702.44	1,661.57	40.87	41.651	
4,700.00	4,451.61	4,484.78	4,442.10	26.30	17.59	-116.48	1,292.52	-858.24	1,722.93	1,680.95	41.97	41.047	
4,800.00	4,541.88	4,562.97	4,519.15	27.11	17.94	-117.07	1,305.43	-855.42	1,744.31	1,701.37	42.94	40.626	
4,900.00	4,632.15	4,707.83	4,662.12	27.92	18.57	-118.17	1,327.87	-849.07	1,765.07	1,720.80	44.28	39.864	
5,000.00	4,722.43	4,821.09	4,773.79	28.74	19.07	-118.99	1,345.23	-841.72	1,784.06	1,738.63	45.43	39.271	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,958.72	4,908.60	29.55	19.72	-119.83	1,369.99	-829.27	1,801.23	1,754.48	46.75	38.529	
5,200.00	4,902.97	5,044.80	4,992.86	30.37	20.13	-120.34	1,385.57	-821.08	1,818.35	1,770.57	47.78	38.056	
5,300.00	4,993.24	5,123.91	5,070.54	31.18	20.49	-120.83	1,398.89	-814.36	1,836.42	1,787.67	48.75	37.670	
5,400.00	5,083.51	5,238.45	5,183.50	32.00	21.00	-121.61	1,415.86	-805.84	1,855.48	1,805.60	49.88	37.201	
5,500.00	5,173.79	5,334.79	5,278.43	32.82	21.43	-122.26	1,429.77	-797.16	1,873.10	1,822.20	50.90	36.801	
5,600.00	5,264.06	5,418.16	5,360.64	33.63	21.80	-122.81	1,441.86	-790.35	1,891.77	1,839.92	51.85	36.487	
5,700.00	5,354.33	5,498.94	5,440.10	34.45	22.17	-123.30	1,454.96	-784.05	1,911.26	1,858.47	52.79	36.207	
5,800.00	5,444.60	5,578.80	5,518.78	35.27	22.52	-123.78	1,467.48	-778.62	1,931.81	1,878.11	53.70	35.971	
5,900.00	5,534.88	5,657.13	5,596.19	36.09	22.87	-124.29	1,478.59	-774.05	1,953.33	1,898.73	54.59	35.781	
6,000.00	5,625.15	5,730.06	5,668.09	36.91	23.19	-124.72	1,490.23	-770.39	1,976.03	1,920.58	55.44	35.641	
6,100.00	5,715.42	5,803.00	5,740.06	37.74	23.51	-125.15	1,501.77	-767.76	2,000.17	1,943.89	56.28	35.538	
6,200.00	5,805.69	5,889.97	5,825.79	38.56	23.90	-125.63	1,516.13	-765.25	2,025.26	1,968.04	57.22	35.396	
6,300.00	5,895.96	5,966.84	5,901.50	39.38	24.24	-126.04	1,529.29	-763.30	2,050.92	1,992.84	58.08	35.313	
6,400.00	5,986.24	6,132.24	6,064.98	40.20	24.96	-127.00	1,553.22	-756.11	2,074.31	2,014.81	59.50	34.865	
6,500.00	6,076.51	6,204.34	6,136.32	41.03	25.26	-127.43	1,563.08	-752.68	2,098.00	2,037.71	60.29	34.797	
6,600.00	6,166.78	6,284.23	6,215.54	41.85	25.59	-127.92	1,573.04	-749.85	2,122.95	2,061.84	61.11	34.737	
6,700.00	6,257.05	6,376.12	6,306.62	42.67	25.98	-128.46	1,584.82	-746.69	2,148.25	2,086.23	62.01	34.643	
6,800.00	6,347.33	6,481.23	6,410.47	43.50	26.43	-129.01	1,600.57	-743.20	2,173.93	2,110.90	63.02	34.494	
6,900.00	6,437.60	6,616.58	6,543.72	44.32	27.04	-129.63	1,623.41	-736.71	2,198.35	2,134.08	64.27	34.206	
7,000.00	6,527.87	6,674.29	6,600.56	45.15	27.30	-129.88	1,633.06	-734.06	2,223.01	2,158.03	64.98	34.210	
7,100.00	6,618.14	6,765.33	6,690.54	45.98	27.70	-130.33	1,646.45	-730.72	2,248.73	2,182.85	65.88	34.131	
7,200.00	6,708.41	7,140.00	7,060.46	46.80	29.04	-133.05	1,662.57	-690.30	2,265.30	2,197.69	67.61	33.507	
7,300.00	6,798.69	7,140.00	7,060.46	47.63	29.04	-133.05	1,662.57	-690.30	2,281.88	2,213.75	68.13	33.491	
7,400.00	6,888.96	7,177.99	7,097.67	48.45	29.11	-133.50	1,656.66	-685.54	2,301.37	2,232.82	68.56	33.569	
7,500.00	6,979.23	7,229.00	7,147.18	49.28	29.19	-134.18	1,644.93	-682.28	2,325.45	2,256.55	68.90	33.751	
7,600.00	7,069.50	7,229.00	7,147.18	50.11	29.19	-134.18	1,644.93	-682.28	2,351.19	2,282.02	69.17	33.989	
7,692.09	7,152.63	7,229.00	7,147.18	50.87	29.19	-134.18	1,644.93	-682.28	2,378.38	2,309.04	69.34	34.302	
7,700.00	7,159.79	7,229.00	7,147.18	50.93	29.19	-135.66	1,644.93	-682.28	2,380.87	2,311.52	69.35	34.333	
7,750.00	7,205.70	7,229.00	7,147.18	51.32	29.19	-146.44	1,644.93	-682.28	2,397.17	2,327.78	69.39	34.548	
7,800.00	7,252.52	7,264.78	7,181.37	51.66	29.22	-160.38	1,634.39	-681.71	2,413.57	2,344.14	69.43	34.764	
7,850.00	7,299.89	7,279.27	7,195.06	51.96	29.23	-176.58	1,629.67	-681.74	2,430.73	2,361.31	69.42	35.013	
7,900.00	7,347.44	7,318.00	7,231.21	52.20	29.25	165.91	1,615.78	-682.53	2,448.56	2,379.15	69.41	35.277	
7,950.00	7,394.83	7,318.00	7,231.21	52.39	29.25	149.74	1,615.78	-682.53	2,465.88	2,396.53	69.35	35.558	
8,000.00	7,441.68	7,318.00	7,231.21	52.53	29.25	136.00	1,615.78	-682.53	2,483.47	2,414.21	69.26	35.857	
8,050.00	7,487.65	7,352.63	7,262.94	52.62	29.26	124.91	1,601.98	-683.84	2,500.76	2,431.58	69.18	36.149	
8,100.00	7,532.37	7,377.73	7,285.60	52.67	29.26	116.22	1,591.27	-684.97	2,517.61	2,448.53	69.08	36.443	
8,150.00	7,575.52	7,408.00	7,312.55	52.67	29.26	109.35	1,577.55	-686.52	2,533.89	2,464.91	68.98	36.732	
8,200.00	7,616.76	7,447.54	7,346.92	52.63	29.25	103.88	1,558.12	-688.53	2,549.29	2,480.43	68.86	37.023	
8,250.00	7,655.77	7,498.52	7,389.55	52.55	29.23	99.50	1,530.27	-690.70	2,563.44	2,494.74	68.70	37.314	
8,300.00	7,692.27	7,593.74	7,461.54	52.44	29.15	95.97	1,468.20	-692.26	2,575.78	2,507.45	68.33	37.698	
8,350.00	7,725.97	7,586.00	7,456.15	52.29	29.15	93.00	1,473.75	-692.28	2,586.86	2,518.58	68.28	37.883	
8,400.00	7,756.62	7,615.42	7,476.25	52.12	29.11	90.58	1,452.28	-692.56	2,596.78	2,528.68	68.10	38.133	
8,450.00	7,783.98	7,629.50	7,485.46	51.92	29.09	88.56	1,441.63	-692.92	2,605.93	2,537.95	67.98	38.332	
8,500.00	7,807.85	7,643.52	7,494.35	51.70	29.07	86.90	1,430.80	-693.42	2,614.12	2,546.23	67.88	38.508	
8,550.00	7,828.05	7,675.00	7,513.28	51.45	29.03	85.68	1,405.72	-695.06	2,621.48	2,553.77	67.72	38.712	
8,600.00	7,844.41	7,675.00	7,513.28	51.20	29.03	84.57	1,405.72	-695.06	2,627.40	2,559.68	67.72	38.798	
8,650.00	7,856.82	7,727.63	7,542.35	50.93	28.95	84.13	1,361.96	-698.05	2,632.15	2,564.67	67.48	39.008	
8,700.00	7,865.18	7,802.57	7,579.10	50.65	28.85	84.19	1,296.73	-701.05	2,634.80	2,567.68	67.12	39.253	
8,750.00	7,869.43	7,952.34	7,640.10	50.36	28.73	85.14	1,160.06	-702.16	2,634.89	2,568.49	66.40	39.681	
8,776.25	7,870.00	7,976.03	7,648.19	50.21	28.73	85.40	1,137.80	-701.67	2,633.69	2,567.35	66.34	39.700	
8,800.00	7,870.00	7,997.68	7,655.03	50.08	28.72	85.55	1,117.26	-701.18	2,632.41	2,566.13	66.28	39.715	
8,900.00	7,870.00	8,105.19	7,681.68	49.53	28.75	86.12	1,013.22	-697.97	2,627.15	2,561.14	66.01	39.800	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,184.60	7,694.65	49.01	28.83	86.40	934.94	-695.03	2,622.02	2,556.06	65.96	39.754	
9,100.00	7,870.00	8,261.02	7,701.96	48.52	28.97	86.56	858.94	-692.56	2,617.85	2,551.85	66.00	39.667	
9,200.00	7,870.00	8,403.87	7,699.70	48.06	29.38	86.50	716.26	-686.99	2,613.89	2,547.94	65.95	39.637	
9,300.00	7,870.00	8,513.76	7,698.42	47.63	29.89	86.46	606.56	-680.74	2,607.90	2,541.64	66.26	39.358	
9,400.00	7,870.00	8,566.00	7,698.30	47.22	30.16	86.46	554.38	-678.15	2,602.83	2,536.14	66.69	39.028	
9,500.00	7,870.00	8,633.50	7,698.75	46.83	30.57	86.46	486.92	-675.88	2,599.24	2,532.01	67.24	38.658	
9,600.00	7,870.00	8,731.09	7,700.98	46.48	31.23	86.51	389.37	-674.10	2,596.93	2,528.95	67.98	38.203	
9,700.00	7,870.00	8,790.61	7,702.94	46.14	31.68	86.55	329.89	-673.21	2,594.99	2,526.28	68.71	37.765	
9,749.35	7,870.00	8,816.28	7,703.91	45.98	31.88	86.57	304.24	-673.21	2,594.71	2,525.62	69.09	37.555	
9,800.00	7,870.00	8,833.00	7,704.58	45.83	32.00	86.59	287.53	-673.34	2,594.93	2,525.51	69.42	37.380	
9,900.00	7,870.00	8,899.20	7,706.84	45.54	32.55	86.64	221.38	-674.69	2,596.54	2,526.22	70.32	36.923	
10,000.00	7,870.00	8,981.93	7,708.93	45.27	33.27	86.69	138.74	-677.64	2,599.58	2,528.17	71.41	36.403	
10,100.00	7,870.00	9,125.73	7,711.60	45.03	34.63	86.75	-4.97	-681.81	2,602.08	2,528.96	73.12	35.588	
10,200.00	7,870.00	9,259.43	7,713.07	44.82	36.00	86.79	-138.65	-683.42	2,602.87	2,527.90	74.97	34.720	
10,300.00	7,870.00	9,359.89	7,713.41	44.66	37.10	86.79	-239.11	-683.87	2,602.97	2,526.31	76.65	33.958	
10,400.00	7,870.00	9,493.00	7,710.83	44.56	38.65	86.74	-372.19	-683.73	2,602.67	2,523.83	78.84	33.012	
10,500.00	7,870.00	9,581.42	7,708.70	44.58	39.71	86.69	-460.58	-682.66	2,601.32	2,520.70	80.62	32.267	
10,536.40	7,870.00	9,600.72	7,708.28	44.63	39.95	86.68	-479.87	-682.64	2,601.20	2,520.08	81.13	32.063	
10,600.00	7,870.00	9,635.20	7,707.59	44.82	40.38	86.66	-514.35	-682.92	2,601.57	2,519.56	82.01	31.721	
10,700.00	7,870.00	9,772.23	7,705.29	45.36	42.12	86.61	-651.35	-683.70	2,601.88	2,517.25	84.63	30.745	
10,800.00	7,870.00	9,905.27	7,703.89	46.15	43.87	86.58	-784.38	-682.88	2,601.00	2,513.67	87.33	29.784	
10,866.32	7,870.00	9,930.68	7,703.70	46.76	44.21	86.58	-809.79	-682.79	2,600.51	2,512.29	88.22	29.476	
10,900.00	7,870.00	9,945.08	7,703.59	47.09	44.40	86.57	-824.19	-682.89	2,600.64	2,511.95	88.69	29.322	
11,000.00	7,870.00	9,990.00	7,703.26	48.13	45.00	86.57	-869.10	-683.88	2,602.48	2,512.35	90.13	28.875	
11,100.00	7,870.00	10,107.41	7,702.13	49.22	46.61	86.55	-986.45	-687.43	2,605.27	2,512.46	92.81	28.072	
11,200.00	7,870.00	10,274.04	7,706.11	50.37	48.96	86.64	-1,153.00	-689.72	2,606.14	2,509.66	96.48	27.013	
11,300.00	7,870.00	10,440.46	7,711.59	51.55	51.38	86.75	-1,319.31	-687.77	2,604.40	2,504.12	100.28	25.971	
11,400.00	7,870.00	10,508.84	7,713.09	52.76	52.39	86.79	-1,387.66	-686.56	2,602.15	2,499.77	102.38	25.417	
11,500.00	7,870.00	10,629.25	7,713.36	54.00	54.19	86.79	-1,508.06	-684.68	2,600.27	2,494.81	105.46	24.657	
11,600.00	7,870.00	10,681.17	7,713.42	55.27	54.97	86.79	-1,559.97	-684.23	2,598.89	2,491.60	107.29	24.223	
11,700.00	7,870.00	10,772.92	7,713.83	56.56	56.36	86.80	-1,651.72	-684.36	2,598.65	2,488.74	109.91	23.644	
11,800.00	7,870.00	10,899.87	7,715.40	57.88	58.30	86.83	-1,778.66	-683.53	2,597.53	2,484.25	113.28	22.931	
11,900.00	7,870.00	10,971.00	7,716.22	59.21	59.40	86.85	-1,849.79	-683.52	2,597.00	2,481.45	115.56	22.474	
11,906.31	7,870.00	10,971.00	7,716.22	59.30	59.40	86.85	-1,849.79	-683.52	2,597.00	2,481.39	115.61	22.464	
12,000.00	7,870.00	11,074.56	7,717.16	60.57	61.00	86.87	-1,953.34	-684.00	2,597.09	2,478.57	118.53	21.912	
12,009.00	7,870.00	11,072.47	7,717.11	60.69	60.97	86.87	-1,951.25	-684.03	2,597.11	2,478.55	118.56	21.906	
12,100.00	7,870.00	11,128.55	7,717.00	61.94	61.85	86.87	-2,007.32	-684.61	2,597.76	2,477.29	120.47	21.564	
12,200.00	7,870.00	12,200.00	7,715.48	63.33	78.62	86.83	-2,112.70	-686.23	2,599.03	2,460.39	138.64	18.747	
12,300.00	7,870.00	11,308.71	7,714.74	64.74	64.67	86.82	-2,187.45	-687.42	2,600.43	2,474.51	125.92	20.651	
12,400.00	7,870.00	11,430.54	7,714.40	66.16	66.59	86.81	-2,309.24	-690.28	2,602.51	2,473.11	129.40	20.112	
12,500.00	7,870.00	11,533.25	7,714.96	67.59	68.23	86.83	-2,411.94	-691.51	2,603.33	2,470.84	132.49	19.650	
12,600.00	7,870.00	11,595.00	7,715.52	69.04	69.21	86.84	-2,473.67	-693.09	2,605.41	2,470.75	134.66	19.348	
12,700.00	7,870.00	11,700.47	7,717.38	70.51	70.90	86.89	-2,579.06	-696.50	2,608.22	2,470.36	137.86	18.920	
12,800.00	7,870.00	11,841.22	7,717.86	71.98	73.16	86.90	-2,719.78	-699.59	2,610.11	2,468.22	141.90	18.395	
12,900.00	7,870.00	11,983.41	7,717.12	73.47	75.48	86.88	-2,861.96	-699.67	2,609.71	2,463.73	145.98	17.877	
12,983.10	7,870.00	12,047.99	7,715.79	74.71	76.54	86.85	-2,926.52	-699.60	2,609.43	2,461.27	148.16	17.613	
13,000.00	7,870.00	12,062.52	7,715.43	74.96	76.77	86.85	-2,941.05	-699.64	2,609.44	2,460.80	148.63	17.556	
13,100.00	7,870.00	12,159.11	7,713.79	76.47	78.36	86.81	-3,037.63	-700.19	2,609.75	2,458.05	151.70	17.203	
13,200.00	7,870.00	12,312.83	7,716.77	77.99	80.90	86.87	-3,191.30	-699.83	2,609.14	2,453.00	156.14	16.711	
13,300.00	7,870.00	12,437.70	7,719.88	79.51	82.98	86.94	-3,316.10	-696.75	2,606.05	2,446.13	159.93	16.295	
13,400.00	7,870.00	12,505.37	7,721.73	81.05	84.11	86.98	-3,383.74	-695.68	2,603.95	2,441.53	162.42	16.032	
13,500.00	7,870.00	12,575.00	7,723.48	82.59	85.27	87.02	-3,453.34	-695.14	2,602.79	2,437.85	164.95	15.780	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,549.41	7,870.00	12,614.52	7,724.23	83.35	85.92	87.03	-3,492.86	-695.13	2,602.59	2,436.28	166.31	15.649	
13,600.00	7,870.00	12,645.94	7,724.59	84.14	86.45	87.04	-3,524.27	-695.37	2,602.78	2,435.30	167.48	15.541	
13,700.00	7,870.00	13,700.00	7,725.39	85.70	104.12	87.06	-3,691.36	-695.60	2,602.77	2,415.57	187.20	13.904	
13,800.00	7,870.00	12,898.61	7,726.41	87.26	90.67	87.08	-3,776.90	-693.98	2,600.58	2,425.32	175.26	14.838	
13,865.83	7,870.00	12,931.00	7,727.11	88.30	91.22	87.09	-3,809.28	-693.94	2,600.18	2,423.56	176.61	14.722	
13,900.00	7,870.00	12,949.76	7,727.55	88.83	91.53	87.10	-3,828.04	-694.09	2,600.29	2,422.94	177.35	14.662	
14,000.00	7,870.00	13,020.00	7,729.05	90.41	92.71	87.14	-3,898.24	-695.42	2,601.66	2,421.77	179.88	14.463	
14,100.00	7,870.00	13,093.97	7,730.19	92.00	93.94	87.16	-3,972.17	-697.60	2,604.10	2,421.62	182.49	14.270	
14,200.00	7,870.00	13,195.08	7,731.02	93.59	95.63	87.18	-4,073.22	-700.78	2,606.87	2,421.07	185.80	14.031	
14,300.00	7,870.00	13,373.07	7,731.78	95.18	98.63	87.20	-4,251.19	-703.61	2,608.12	2,417.04	191.08	13.649	
14,327.86	7,870.00	13,391.94	7,731.86	95.63	98.94	87.21	-4,270.06	-703.64	2,608.07	2,416.29	191.78	13.599	
14,400.00	7,870.00	13,433.89	7,732.47	96.79	99.65	87.22	-4,312.00	-704.07	2,608.52	2,415.11	193.41	13.487	
14,500.00	7,870.00	13,511.74	7,734.23	98.39	100.97	87.26	-4,389.81	-705.90	2,610.36	2,414.20	196.15	13.308	
14,600.00	7,870.00	13,633.10	7,732.76	100.00	103.01	87.23	-4,511.12	-708.39	2,612.16	2,412.14	200.01	13.060	
14,700.00	7,870.00	14,700.00	7,729.40	101.62	121.19	87.16	-4,676.07	-708.56	2,611.94	2,391.63	220.31	11.856	
14,800.00	7,870.00	13,879.40	7,727.97	103.24	107.20	87.12	-4,757.36	-707.62	2,610.63	2,402.80	207.82	12.562	
14,824.20	7,870.00	13,892.46	7,727.75	103.63	107.42	87.12	-4,770.42	-707.61	2,610.55	2,402.19	208.35	12.529	
14,900.00	7,870.00	13,934.46	7,727.04	104.87	108.14	87.10	-4,812.42	-707.96	2,610.96	2,400.95	210.02	12.432	
15,000.00	7,870.00	14,000.00	7,725.83	106.50	109.25	87.08	-4,877.92	-709.53	2,613.01	2,400.57	212.44	12.300	
15,100.00	7,870.00	14,117.11	7,723.80	108.13	111.24	87.04	-4,994.97	-712.75	2,615.56	2,399.34	216.23	12.096	
15,200.00	7,870.00	14,251.19	7,721.83	109.77	113.52	87.00	-5,129.02	-714.62	2,616.67	2,396.21	220.46	11.869	
15,300.00	7,870.00	14,391.56	7,720.79	111.41	115.92	86.97	-5,269.38	-714.68	2,616.40	2,391.56	224.84	11.637	
15,400.00	7,870.00	14,477.60	7,720.49	113.05	117.39	86.96	-5,355.42	-714.01	2,615.35	2,387.49	227.86	11.478	
15,427.47	7,870.00	14,493.04	7,720.58	113.50	117.66	86.97	-5,370.86	-714.03	2,615.29	2,386.81	228.49	11.446	
15,500.00	7,870.00	14,535.00	7,721.09	114.70	118.38	86.98	-5,412.81	-714.47	2,615.73	2,385.59	230.14	11.366	
15,600.00	7,870.00	14,642.03	7,722.71	116.35	120.21	87.01	-5,519.82	-715.98	2,616.72	2,383.01	233.72	11.196	
15,700.00	7,870.00	14,735.63	7,725.48	118.00	121.81	87.08	-5,613.36	-717.50	2,617.85	2,380.90	236.95	11.048	
15,800.00	7,870.00	14,828.33	7,729.05	119.66	123.40	87.16	-5,705.98	-718.88	2,618.83	2,378.66	240.16	10.904	
15,900.00	7,870.00	14,892.00	7,731.86	121.32	124.49	87.22	-5,769.57	-720.72	2,621.09	2,378.51	242.57	10.805	
16,000.00	7,870.00	15,015.71	7,737.87	122.98	126.61	87.35	-5,893.07	-724.65	2,623.75	2,377.09	246.66	10.637	
16,100.00	7,870.00	15,135.35	7,743.66	124.65	128.66	87.48	-6,012.54	-726.98	2,625.11	2,374.48	250.62	10.474	
16,200.00	7,870.00	15,203.47	7,746.67	126.32	129.83	87.55	-6,080.58	-728.40	2,626.73	2,373.56	253.17	10.375	
16,300.00	7,870.00	15,283.40	7,749.45	127.99	131.20	87.61	-6,160.41	-731.33	2,629.84	2,373.81	256.02	10.272	
16,400.00	7,870.00	15,383.17	7,752.77	129.66	132.91	87.69	-6,260.07	-734.59	2,632.62	2,373.19	259.44	10.147	
16,500.00	7,870.00	15,460.03	7,754.45	131.33	134.22	87.73	-6,336.84	-737.76	2,636.30	2,374.13	262.18	10.055	
16,600.00	7,870.00	15,569.06	7,756.06	133.01	136.09	87.76	-6,445.76	-742.67	2,640.42	2,374.57	265.85	9.932	
16,700.00	7,870.00	15,722.60	7,757.55	134.69	138.72	87.80	-6,599.21	-747.41	2,643.15	2,372.36	270.79	9.761	
16,800.00	7,870.00	15,868.40	7,758.83	136.37	141.24	87.83	-6,745.00	-749.04	2,643.86	2,368.42	275.44	9.599	
16,900.00	7,870.00	15,975.86	7,758.12	138.06	143.10	87.81	-6,852.45	-749.25	2,643.75	2,364.70	279.05	9.474	
17,000.00	7,870.00	16,173.84	7,751.57	139.74	146.54	87.67	-7,050.26	-745.65	2,641.89	2,357.11	284.78	9.277	
17,100.00	7,870.00	16,260.18	7,749.89	141.43	148.05	87.63	-7,136.51	-741.98	2,637.49	2,349.58	287.91	9.161	
17,200.00	7,870.00	16,312.00	7,749.86	143.12	148.95	87.63	-7,188.32	-740.90	2,634.97	2,344.75	290.22	9.079	
17,271.42	7,870.00	16,338.41	7,750.08	144.32	149.41	87.63	-7,214.73	-740.83	2,634.41	2,342.88	291.54	9.036	
17,300.00	7,870.00	16,350.84	7,750.22	144.81	149.62	87.63	-7,227.15	-740.92	2,634.50	2,342.41	292.09	9.019	
17,400.00	7,870.00	16,401.00	7,751.02	146.50	150.49	87.65	-7,277.29	-742.05	2,636.21	2,342.06	294.15	8.962	
17,500.00	7,870.00	16,500.36	7,753.18	148.19	152.20	87.70	-7,376.57	-745.28	2,639.03	2,341.45	297.58	8.868	
17,600.00	7,870.00	16,631.49	7,757.38	149.89	154.47	87.79	-7,507.60	-748.43	2,640.97	2,339.05	301.92	8.747	
17,700.00	7,870.00	16,709.55	7,760.46	151.59	155.82	87.86	-7,585.58	-749.92	2,642.46	2,337.69	304.76	8.670	
17,800.00	7,870.00	16,774.62	7,762.96	153.29	156.95	87.92	-7,650.57	-752.19	2,645.42	2,338.22	307.20	8.611	
17,900.00	7,870.00	16,879.69	7,766.89	154.99	158.76	88.01	-7,755.48	-756.35	2,648.90	2,338.09	310.81	8.523	
18,000.00	7,870.00	16,982.50	7,771.80	156.69	160.53	88.11	-7,858.11	-760.07	2,652.02	2,337.66	314.37	8.436	
18,100.00	7,870.00	17,072.54	7,774.10	158.39	162.09	88.17	-7,948.04	-763.52	2,655.43	2,337.91	317.52	8.363	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.00	7,870.00	17,176.70	7,775.52	160.09	163.89	88.20	-8,052.12	-767.69	2,659.05	2,337.95	321.10	8.281	
18,300.00	7,870.00	17,304.04	7,777.29	161.80	166.09	88.24	-8,179.37	-771.93	2,662.01	2,336.65	325.36	8.182	
18,400.00	7,870.00	17,419.64	7,779.84	163.51	168.09	88.30	-8,294.90	-774.87	2,664.15	2,334.88	329.27	8.091	
18,455.45	7,870.00	17,481.93	7,781.49	164.45	169.17	88.33	-8,357.16	-776.16	2,665.06	2,333.67	331.39	8.042	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 586-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	318.00	317.99	0.00	0.00	-51.09	784.98	-972.66	1,292.47				
100.00	100.00	318.00	317.99	0.13	0.00	-51.09	784.98	-972.66	1,270.71	1,270.27	0.44	2,920.253	
200.00	200.00	318.00	317.99	0.49	0.00	-51.09	784.98	-972.66	1,256.54	1,256.00	0.54	2,306.782	
300.00	300.00	318.00	317.99	0.85	0.00	-51.09	784.98	-972.66	1,250.24	1,249.39	0.85	1,465.625	
328.99	328.99	318.00	317.99	0.96	0.00	-51.09	784.98	-972.66	1,249.90	1,248.95	0.96	1,308.126	
400.00	400.00	387.97	387.95	1.21	0.13	-51.14	784.33	-973.32	1,250.01	1,248.67	1.34	935.845	
500.00	500.00	490.55	490.53	1.57	0.31	-51.19	783.35	-974.09	1,249.99	1,248.11	1.88	665.455	
600.00	600.00	593.14	593.11	1.93	0.49	-51.25	782.33	-974.60	1,249.77	1,247.34	2.42	516.186	
623.23	623.23	616.96	616.93	2.01	0.54	-51.26	782.09	-974.69	1,249.68	1,247.14	2.55	490.606	CC
700.00	700.00	678.19	678.15	2.29	0.80	-51.21	783.13	-974.32	1,250.09	1,247.00	3.08	405.422	ES
800.00	800.00	766.43	766.29	2.64	1.11	-51.03	786.99	-972.73	1,251.43	1,247.68	3.74	334.174	
900.00	900.00	856.92	856.43	3.00	1.43	-50.68	794.17	-969.44	1,253.63	1,249.20	4.43	283.022	
1,000.00	1,000.00	943.85	942.70	3.36	1.76	-50.21	803.81	-964.95	1,256.73	1,251.62	5.12	245.648	
1,100.00	1,100.00	1,029.90	1,027.86	3.72	2.10	-49.67	815.19	-960.21	1,261.06	1,255.25	5.81	216.875	
1,200.00	1,200.00	1,124.23	1,120.93	4.08	2.50	-49.01	829.38	-954.31	1,266.18	1,259.62	6.56	193.009	
1,300.00	1,300.00	1,218.93	1,214.26	4.44	2.90	-48.32	844.23	-948.24	1,271.80	1,264.48	7.32	173.824	
1,400.00	1,399.98	1,328.66	1,322.44	4.79	3.38	-90.46	861.28	-941.47	1,277.75	1,269.60	8.14	156.946	
1,500.00	1,499.84	1,434.07	1,426.32	5.15	3.84	-89.84	877.27	-933.40	1,282.46	1,273.51	8.95	143.269	
1,600.00	1,599.45	1,518.09	1,509.04	5.51	4.22	-89.42	890.59	-927.10	1,287.86	1,278.18	9.67	133.121	
1,700.00	1,698.70	1,626.61	1,615.68	5.87	4.71	-89.05	908.93	-918.92	1,293.97	1,283.44	10.52	122.959	
1,800.00	1,797.47	1,743.57	1,730.82	6.24	5.24	-88.89	927.02	-909.17	1,298.38	1,286.96	11.42	113.682	
1,900.00	1,895.62	1,827.14	1,813.20	6.63	5.61	-88.91	939.59	-902.77	1,302.97	1,290.80	12.18	107.008	
2,000.00	1,993.06	1,912.14	1,896.98	7.04	5.99	-89.05	952.81	-897.43	1,308.84	1,295.88	12.96	101.024	
2,100.00	2,089.64	2,051.95	2,034.79	7.48	6.61	-89.57	974.10	-887.35	1,313.93	1,299.91	14.02	93.719	
2,200.00	2,185.27	2,152.60	2,133.87	7.94	7.07	-90.04	988.86	-877.55	1,316.78	1,301.83	14.94	88.115	
2,300.00	2,279.82	2,232.83	2,212.77	8.45	7.44	-90.50	1,001.36	-870.14	1,320.76	1,304.95	15.81	83.528	
2,400.00	2,373.17	2,312.54	2,291.17	8.99	7.80	-91.04	1,014.33	-863.87	1,326.44	1,309.72	16.72	79.353	
2,500.00	2,465.21	2,393.93	2,371.21	9.58	8.18	-91.69	1,028.04	-858.44	1,333.77	1,316.10	17.67	75.491	
2,574.08	2,532.50	2,454.89	2,431.19	10.04	8.45	-92.25	1,038.39	-855.07	1,340.23	1,321.83	18.40	72.825	
2,600.00	2,555.89	2,480.38	2,456.28	10.21	8.57	-92.55	1,042.70	-853.79	1,342.67	1,323.98	18.69	71.855	
2,700.00	2,646.16	2,579.47	2,553.90	10.88	9.01	-93.74	1,059.00	-848.91	1,352.21	1,332.42	19.79	68.319	
2,800.00	2,736.44	2,674.07	2,647.38	11.57	9.42	-94.93	1,073.09	-845.43	1,362.39	1,341.51	20.88	65.244	
2,900.00	2,826.71	2,798.14	2,769.97	12.27	9.96	-96.46	1,091.24	-839.73	1,372.43	1,350.30	22.13	62.014	
3,000.00	2,916.98	2,903.79	2,874.09	13.00	10.43	-97.65	1,107.34	-831.89	1,381.06	1,357.75	23.31	59.237	
3,100.00	3,007.25	3,034.24	3,003.07	13.73	11.00	-99.20	1,124.22	-822.05	1,388.93	1,364.33	24.60	56.463	
3,200.00	3,097.52	3,137.11	3,105.08	14.48	11.42	-100.49	1,134.96	-814.28	1,396.15	1,370.40	25.74	54.233	
3,300.00	3,187.80	3,242.64	3,209.54	15.23	11.86	-101.75	1,146.54	-804.93	1,403.19	1,376.28	26.91	52.148	
3,400.00	3,278.07	3,343.45	3,308.92	15.99	12.31	-102.83	1,159.75	-794.24	1,410.38	1,382.30	28.08	50.231	
3,500.00	3,368.34	3,434.12	3,398.02	16.76	12.73	-103.74	1,172.90	-783.87	1,417.98	1,388.77	29.22	48.536	
3,600.00	3,458.61	3,512.97	3,475.72	17.54	13.08	-104.56	1,183.69	-775.93	1,426.84	1,396.56	30.28	47.117	
3,700.00	3,548.89	3,601.65	3,563.41	18.32	13.46	-105.55	1,194.76	-768.68	1,437.25	1,405.88	31.38	45.808	
3,800.00	3,639.16	3,735.13	3,694.99	19.10	14.06	-106.92	1,212.77	-755.45	1,447.15	1,414.47	32.68	44.283	
3,900.00	3,729.43	3,822.98	3,781.42	19.89	14.46	-107.78	1,224.88	-745.45	1,456.27	1,422.49	33.78	43.108	
4,000.00	3,819.70	3,899.00	3,856.55	20.69	14.79	-108.59	1,233.99	-738.35	1,466.92	1,432.12	34.80	42.152	
4,100.00	3,909.98	3,975.19	3,932.06	21.48	15.10	-109.44	1,242.43	-732.64	1,479.35	1,443.56	35.79	41.337	
4,200.00	4,000.25	4,051.15	4,007.23	22.28	15.43	-110.24	1,252.02	-727.45	1,493.46	1,456.68	36.77	40.612	
4,300.00	4,090.52	4,123.35	4,078.36	23.08	15.75	-110.91	1,263.43	-722.71	1,509.32	1,471.58	37.74	39.992	
4,400.00	4,180.79	4,229.51	4,183.01	23.88	16.23	-111.89	1,280.34	-717.00	1,526.73	1,487.84	38.90	39.250	
4,500.00	4,271.06	4,330.24	4,282.45	24.69	16.67	-112.83	1,295.03	-710.46	1,543.01	1,503.01	40.00	38.574	
4,600.00	4,361.34	4,441.15	4,392.20	25.49	17.15	-113.91	1,309.40	-703.56	1,559.48	1,518.35	41.14	37.911	
4,700.00	4,451.61	4,528.22	4,478.23	26.30	17.53	-114.71	1,321.39	-697.43	1,575.84	1,533.70	42.14	37.393	
4,800.00	4,541.88	4,628.66	4,577.16	27.11	17.98	-115.55	1,337.15	-690.37	1,593.06	1,549.82	43.24	36.840	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 586-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,632.15	4,720.76	4,667.65	27.92	18.41	-116.25	1,352.75	-683.28	1,610.28	1,565.98	44.30	36.349	
5,000.00	4,722.43	4,799.49	4,745.26	28.74	18.76	-116.89	1,364.89	-678.10	1,628.45	1,583.20	45.25	35.986	
5,100.00	4,812.70	4,955.60	4,899.06	29.55	19.47	-118.12	1,388.89	-666.37	1,646.25	1,599.61	46.64	35.294	
5,200.00	4,902.97	5,048.66	4,990.53	30.37	19.90	-118.82	1,403.12	-656.83	1,661.55	1,613.87	47.68	34.850	
5,300.00	4,993.24	5,122.32	5,063.23	31.18	20.22	-119.41	1,413.22	-650.70	1,678.58	1,630.00	48.57	34.557	
5,400.00	5,083.51	5,222.90	5,162.88	32.00	20.65	-120.29	1,424.76	-643.46	1,696.61	1,647.03	49.57	34.225	
5,500.00	5,173.79	5,386.66	5,324.53	32.82	21.36	-121.60	1,445.18	-627.25	1,712.59	1,661.71	50.88	33.658	
5,600.00	5,264.06	5,480.10	5,416.40	33.63	21.79	-122.29	1,457.73	-615.73	1,726.74	1,674.87	51.87	33.290	
5,700.00	5,354.33	5,547.96	5,483.18	34.45	22.10	-122.78	1,467.14	-608.13	1,742.32	1,689.59	52.73	33.044	
5,800.00	5,444.60	5,608.17	5,542.48	35.27	22.37	-123.20	1,475.88	-602.50	1,759.99	1,706.46	53.52	32.883	
5,900.00	5,534.88	5,676.08	5,609.49	36.09	22.67	-123.68	1,485.62	-597.46	1,779.70	1,725.37	54.33	32.758	
6,000.00	5,625.15	5,749.16	5,681.89	36.91	22.98	-124.23	1,494.74	-593.23	1,801.00	1,745.88	55.13	32.670	
6,100.00	5,715.42	5,861.29	5,793.00	37.74	23.45	-125.07	1,508.62	-587.48	1,823.32	1,767.17	56.15	32.473	
6,200.00	5,805.69	6,005.53	5,935.34	38.56	24.09	-126.03	1,528.91	-576.09	1,843.20	1,785.82	57.38	32.121	
6,300.00	5,895.96	6,098.52	6,026.75	39.38	24.52	-126.57	1,543.66	-567.44	1,862.22	1,803.88	58.35	31.917	
6,400.00	5,986.24	6,168.84	6,095.74	40.20	24.85	-126.95	1,555.89	-561.51	1,882.36	1,823.18	59.17	31.810	
6,500.00	6,076.51	6,229.98	6,155.87	41.03	25.13	-127.28	1,566.16	-557.40	1,904.24	1,844.33	59.92	31.781	
6,600.00	6,166.78	6,297.85	6,222.89	41.85	25.43	-127.69	1,576.34	-554.07	1,927.92	1,867.26	60.66	31.782	
6,700.00	6,257.05	6,700.00	6,331.00	42.67	27.12	-128.39	1,590.60	-549.12	1,952.07	1,889.21	62.87	31.050	
6,800.00	6,347.33	6,593.30	6,515.14	43.50	26.70	-129.54	1,614.81	-534.94	1,973.15	1,910.06	63.09	31.275	
6,900.00	6,437.60	6,671.16	6,591.84	44.32	27.05	-129.98	1,626.07	-527.74	1,993.28	1,929.36	63.91	31.188	
7,000.00	6,527.87	6,735.11	6,654.85	45.15	27.33	-130.32	1,635.77	-522.66	2,014.83	1,950.20	64.64	31.171	
7,100.00	6,618.14	6,796.09	6,715.04	45.98	27.60	-130.64	1,644.84	-518.89	2,038.21	1,972.89	65.32	31.202	
7,200.00	6,708.41	7,083.75	6,998.90	46.80	28.62	-133.02	1,654.06	-486.81	2,054.77	1,988.08	66.69	30.810	
7,300.00	6,798.69	7,138.00	7,051.53	47.63	28.73	-133.80	1,642.66	-480.39	2,072.87	2,005.81	67.06	30.908	
7,400.00	6,888.96	7,138.00	7,051.53	48.45	28.73	-133.80	1,642.66	-480.39	2,093.51	2,026.09	67.41	31.054	
7,500.00	6,979.23	7,138.00	7,051.53	49.28	28.73	-133.80	1,642.66	-480.39	2,118.67	2,051.04	67.63	31.326	
7,600.00	7,069.50	7,171.94	7,084.19	50.11	28.76	-134.33	1,633.68	-478.30	2,146.88	2,079.12	67.75	31.687	
7,692.09	7,152.63	7,186.45	7,098.09	50.87	28.77	-134.56	1,629.54	-478.03	2,176.40	2,108.61	67.79	32.105	
7,700.00	7,159.79	7,187.67	7,099.27	50.93	28.77	-136.08	1,629.19	-478.03	2,179.08	2,111.29	67.79	32.144	
7,750.00	7,205.70	7,227.00	7,136.66	51.32	28.80	-147.54	1,617.11	-479.26	2,197.65	2,129.83	67.81	32.407	
7,800.00	7,252.52	7,227.00	7,136.66	51.66	28.80	-161.17	1,617.11	-479.26	2,215.33	2,147.56	67.77	32.688	
7,850.00	7,299.89	7,227.00	7,136.66	51.96	28.80	-177.39	1,617.11	-479.26	2,233.75	2,166.05	67.70	32.997	
7,900.00	7,347.44	7,227.00	7,136.66	52.20	28.80	165.21	1,617.11	-479.26	2,252.74	2,185.15	67.59	33.329	
7,950.00	7,394.83	7,227.00	7,136.66	52.39	28.80	148.78	1,617.11	-479.26	2,272.16	2,204.69	67.46	33.680	
8,000.00	7,441.68	7,227.00	7,136.66	52.53	28.80	134.80	1,617.11	-479.26	2,291.83	2,224.52	67.31	34.047	
8,050.00	7,487.65	7,260.35	7,168.01	52.62	28.81	123.54	1,606.04	-481.94	2,310.86	2,243.60	67.26	34.358	
8,100.00	7,532.37	7,274.88	7,181.57	52.67	28.82	114.65	1,601.03	-483.41	2,329.80	2,262.65	67.15	34.696	
8,150.00	7,575.52	7,316.00	7,219.58	52.67	28.83	107.70	1,586.22	-488.54	2,348.77	2,281.65	67.12	34.992	
8,200.00	7,616.76	7,316.00	7,219.58	52.63	28.83	101.93	1,586.22	-488.54	2,366.30	2,299.32	66.98	35.327	
8,250.00	7,655.77	7,447.74	7,335.84	52.55	28.79	97.96	1,526.05	-501.18	2,382.26	2,315.26	67.00	35.554	
8,300.00	7,692.27	7,500.95	7,379.54	52.44	28.76	94.44	1,495.89	-504.28	2,395.81	2,328.95	66.86	35.834	
8,350.00	7,725.97	7,519.30	7,394.07	52.29	28.74	91.45	1,484.73	-505.35	2,408.12	2,341.37	66.75	36.076	
8,400.00	7,756.62	7,541.14	7,410.95	52.12	28.72	89.00	1,470.94	-506.72	2,419.38	2,352.73	66.65	36.300	
8,450.00	7,783.98	7,562.92	7,427.31	51.92	28.69	86.99	1,456.63	-508.23	2,429.52	2,362.96	66.56	36.500	
8,500.00	7,807.85	7,586.29	7,444.31	51.70	28.67	85.40	1,440.70	-509.98	2,438.49	2,372.00	66.49	36.677	
8,550.00	7,828.05	7,797.06	7,566.46	51.45	28.36	85.21	1,270.75	-514.13	2,444.42	2,378.97	65.45	37.348	
8,600.00	7,844.41	7,830.29	7,578.60	51.20	28.30	84.43	1,239.86	-512.68	2,447.11	2,381.85	65.26	37.495	
8,650.00	7,856.82	7,864.34	7,588.61	50.93	28.24	83.95	1,207.36	-511.10	2,448.34	2,383.25	65.09	37.616	
8,700.00	7,865.18	7,899.41	7,598.08	50.65	28.19	83.80	1,173.62	-509.58	2,448.08	2,383.14	64.94	37.698	
8,750.00	7,869.43	7,940.00	7,608.51	50.36	28.12	83.99	1,134.43	-508.01	2,446.36	2,381.58	64.78	37.763	
8,776.25	7,870.00	7,940.00	7,608.51	50.21	28.12	84.11	1,134.43	-508.01	2,444.90	2,380.04	64.86	37.696	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 586-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	7,940.00	7,608.51	50.08	28.12	84.11	1,134.43	-508.01	2,443.60	2,378.67	64.93	37.633	
8,900.00	7,870.00	8,001.58	7,623.23	49.53	28.06	84.45	1,074.66	-506.69	2,438.95	2,374.06	64.89	37.588	
9,000.00	7,870.00	8,072.95	7,638.26	49.01	28.02	84.80	1,004.89	-506.78	2,436.58	2,371.73	64.85	37.571	
9,100.00	7,870.00	8,259.99	7,662.80	48.52	28.16	85.37	819.68	-501.61	2,431.99	2,367.52	64.47	37.726	
9,200.00	7,870.00	8,346.53	7,665.89	48.06	28.38	85.43	733.29	-497.61	2,426.73	2,362.09	64.64	37.544	
9,300.00	7,870.00	8,441.58	7,667.66	47.63	28.76	85.46	638.34	-493.36	2,421.79	2,356.86	64.94	37.294	
9,400.00	7,870.00	8,538.65	7,669.31	47.22	29.27	85.49	541.39	-489.16	2,417.00	2,351.60	65.40	36.956	
9,500.00	7,870.00	8,623.55	7,670.16	46.83	29.81	85.51	456.56	-485.68	2,412.51	2,346.49	66.02	36.543	
9,600.00	7,870.00	8,700.87	7,671.26	46.48	30.37	85.53	379.29	-483.17	2,408.84	2,342.10	66.74	36.092	
9,700.00	7,870.00	8,777.19	7,672.48	46.14	30.97	85.55	303.00	-481.48	2,406.16	2,338.59	67.57	35.609	
9,800.00	7,870.00	8,856.85	7,673.55	45.83	31.65	85.58	223.35	-480.45	2,404.42	2,335.90	68.52	35.091	
9,900.00	7,870.00	8,944.64	7,673.13	45.54	32.45	85.56	135.57	-479.79	2,403.36	2,333.74	69.62	34.521	
10,000.00	7,870.00	9,038.96	7,671.90	45.27	33.36	85.53	41.25	-479.31	2,402.62	2,331.73	70.89	33.892	
10,100.00	7,870.00	9,144.11	7,670.05	45.03	34.45	85.49	-63.88	-478.95	2,402.08	2,329.70	72.38	33.185	
10,200.00	7,870.00	9,255.89	7,668.04	44.82	35.67	85.44	-175.63	-477.85	2,400.90	2,326.81	74.09	32.404	
10,300.00	7,870.00	9,377.02	7,668.57	44.66	37.07	85.45	-296.75	-476.25	2,399.22	2,323.15	76.07	31.539	
10,400.00	7,870.00	9,479.20	7,668.69	44.56	38.31	85.45	-398.91	-474.39	2,397.06	2,319.07	77.98	30.738	
10,500.00	7,870.00	9,595.67	7,668.74	44.58	39.77	85.44	-515.35	-471.81	2,394.52	2,314.32	80.20	29.859	
10,600.00	7,870.00	9,671.63	7,668.80	44.82	40.75	85.44	-591.28	-469.88	2,391.74	2,309.79	81.95	29.185	
10,700.00	7,870.00	9,721.00	7,668.62	45.36	41.39	85.43	-640.65	-469.47	2,390.72	2,307.36	83.35	28.682	
10,710.12	7,870.00	9,733.73	7,668.56	45.43	41.56	85.43	-653.38	-469.49	2,390.70	2,307.08	83.62	28.592	
10,800.00	7,870.00	9,787.23	7,668.43	46.15	42.26	85.43	-706.88	-470.09	2,391.42	2,306.38	85.03	28.123	
10,900.00	7,870.00	9,854.60	7,668.05	47.09	43.16	85.42	-774.22	-471.87	2,393.72	2,306.95	86.77	27.588	
11,000.00	7,870.00	9,943.61	7,664.68	48.13	44.37	85.35	-863.12	-474.92	2,397.09	2,308.21	88.88	26.970	
11,100.00	7,870.00	10,113.49	7,655.99	49.22	46.74	85.15	-1,032.73	-478.22	2,399.17	2,306.71	92.47	25.946	
11,200.00	7,870.00	10,236.60	7,649.30	50.37	48.51	84.99	-1,155.66	-478.01	2,399.13	2,303.77	95.36	25.160	
11,300.00	7,870.00	10,366.31	7,643.63	51.55	50.41	84.85	-1,285.24	-476.47	2,397.98	2,299.52	98.46	24.354	
11,400.00	7,870.00	10,475.65	7,638.30	52.76	52.05	84.71	-1,394.42	-474.29	2,396.10	2,294.84	101.26	23.662	
11,500.00	7,870.00	10,561.18	7,633.85	54.00	53.34	84.60	-1,479.81	-472.39	2,394.07	2,290.41	103.66	23.095	
11,600.00	7,870.00	10,629.58	7,630.57	55.27	54.38	84.52	-1,548.13	-471.79	2,393.29	2,287.54	105.75	22.632	
11,617.45	7,870.00	10,643.11	7,629.94	55.49	54.58	84.51	-1,561.65	-471.76	2,393.27	2,287.13	106.15	22.547	
11,700.00	7,870.00	10,707.69	7,626.87	56.56	55.57	84.43	-1,626.15	-471.94	2,393.59	2,285.55	108.04	22.154	
11,800.00	7,870.00	10,793.22	7,622.55	57.88	56.88	84.33	-1,711.57	-472.72	2,394.66	2,284.15	110.51	21.669	
11,900.00	7,870.00	10,899.19	7,619.07	59.21	58.51	84.25	-1,817.47	-474.07	2,395.92	2,282.46	113.46	21.117	
12,000.00	7,870.00	11,002.81	7,616.51	60.57	60.12	84.19	-1,921.05	-475.14	2,396.86	2,280.45	116.40	20.591	
12,100.00	7,870.00	11,105.99	7,612.88	61.94	61.73	84.11	-2,024.16	-476.22	2,397.92	2,278.56	119.36	20.089	
12,200.00	7,870.00	11,220.20	7,607.87	63.33	63.54	83.99	-2,138.25	-476.64	2,398.40	2,275.80	122.59	19.564	
12,300.00	7,870.00	11,319.74	7,602.31	64.74	65.12	83.86	-2,237.64	-476.61	2,398.63	2,273.11	125.52	19.109	
12,400.00	7,870.00	11,455.66	7,596.58	66.16	67.30	83.72	-2,373.43	-475.71	2,398.07	2,268.76	129.30	18.546	
12,500.00	7,870.00	11,573.59	7,592.59	67.59	69.21	83.62	-2,491.28	-473.77	2,396.46	2,263.74	132.72	18.056	
12,600.00	7,870.00	11,687.42	7,587.54	69.04	71.07	83.49	-2,604.96	-471.00	2,394.20	2,258.13	136.07	17.596	
12,700.00	7,870.00	11,785.44	7,583.65	70.51	72.68	83.39	-2,702.86	-468.38	2,391.66	2,252.57	139.09	17.196	
12,800.00	7,870.00	11,871.32	7,582.80	71.98	74.08	83.36	-2,788.72	-466.78	2,389.57	2,247.70	141.87	16.843	
12,900.00	7,870.00	11,988.28	7,582.86	73.47	76.01	83.36	-2,905.66	-464.47	2,387.25	2,241.85	145.40	16.419	
13,000.00	7,870.00	12,088.38	7,582.08	74.96	77.67	83.33	-3,005.73	-462.08	2,384.64	2,236.09	148.55	16.053	
13,100.00	7,870.00	12,161.39	7,583.13	76.47	78.88	83.35	-3,078.72	-460.77	2,382.43	2,231.33	151.09	15.768	
13,186.81	7,870.00	12,224.65	7,584.50	77.79	79.92	83.38	-3,124.66	-460.74	2,381.84	2,228.69	153.15	15.552	
13,200.00	7,870.00	12,220.53	7,585.01	77.99	79.85	83.39	-3,137.83	-460.88	2,381.88	2,228.59	153.29	15.538	
13,300.00	7,870.00	12,323.20	7,588.90	79.51	81.55	83.49	-3,240.41	-461.95	2,382.14	2,225.56	156.58	15.213	
13,400.00	7,870.00	12,432.99	7,592.58	81.05	83.38	83.58	-3,350.14	-462.59	2,382.00	2,221.93	160.07	14.881	
13,473.23	7,870.00	12,500.34	7,594.38	82.18	84.50	83.62	-3,417.47	-462.89	2,381.86	2,219.57	162.29	14.676	
13,500.00	7,870.00	12,521.28	7,594.85	82.59	84.84	83.63	-3,438.40	-463.04	2,381.89	2,218.88	163.01	14.612	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 586-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,870.00	12,613.01	7,596.32	84.14	86.37	83.67	-3,530.11	-464.08	2,382.49	2,216.46	166.04	14.349	
13,700.00	7,870.00	12,716.19	7,597.09	85.70	88.09	83.69	-3,633.29	-464.95	2,382.90	2,213.54	169.36	14.070	
13,800.00	7,870.00	12,807.86	7,596.95	87.26	89.62	83.69	-3,724.95	-465.81	2,383.52	2,211.13	172.39	13.826	
13,900.00	7,870.00	12,898.36	7,596.00	88.83	91.14	83.67	-3,815.43	-466.93	2,384.53	2,209.14	175.38	13.596	
14,000.00	7,870.00	12,994.43	7,594.36	90.41	92.75	83.63	-3,911.48	-468.36	2,385.86	2,207.33	178.53	13.364	
14,100.00	7,870.00	13,104.62	7,592.14	92.00	94.60	83.58	-4,021.64	-469.83	2,387.07	2,205.03	182.04	13.113	
14,200.00	7,870.00	13,195.80	7,589.95	93.59	96.13	83.53	-4,112.79	-470.92	2,388.19	2,203.13	185.07	12.904	
14,300.00	7,870.00	13,331.51	7,589.57	95.18	98.42	83.52	-4,248.48	-471.97	2,388.63	2,199.33	189.30	12.618	
14,385.02	7,870.00	13,412.25	7,590.26	96.55	99.79	83.54	-4,329.22	-472.10	2,388.39	2,196.39	192.00	12.439	
14,400.00	7,870.00	13,423.78	7,590.35	96.79	99.99	83.54	-4,340.75	-472.15	2,388.41	2,196.00	192.41	12.413	
14,500.00	7,870.00	13,489.96	7,590.69	98.39	101.10	83.55	-4,406.92	-472.87	2,389.14	2,194.33	194.81	12.264	
14,600.00	7,870.00	13,553.00	7,590.69	100.00	102.17	83.56	-4,469.93	-474.77	2,391.68	2,194.60	197.09	12.135	
14,700.00	7,870.00	13,641.55	7,590.05	101.62	103.65	83.55	-4,558.41	-478.28	2,395.32	2,195.26	200.06	11.973	
14,800.00	7,870.00	13,797.96	7,589.33	103.24	106.30	83.54	-4,714.77	-482.29	2,397.51	2,192.55	204.96	11.698	
14,900.00	7,870.00	13,918.20	7,589.18	104.87	108.34	83.54	-4,835.00	-483.68	2,398.34	2,189.50	208.84	11.484	
15,000.00	7,870.00	14,051.67	7,590.75	106.50	110.62	83.58	-4,968.45	-483.19	2,397.33	2,184.25	213.08	11.251	
15,080.89	7,870.00	14,108.29	7,591.69	107.82	111.59	83.60	-5,025.06	-483.11	2,396.83	2,181.67	215.16	11.140	
15,100.00	7,870.00	14,118.98	7,591.89	108.13	111.78	83.60	-5,035.75	-483.19	2,396.87	2,181.28	215.58	11.118	
15,200.00	7,870.00	14,176.00	7,593.23	109.77	112.75	83.64	-5,092.74	-484.27	2,398.14	2,180.38	217.76	11.013	
15,300.00	7,870.00	14,260.03	7,595.49	111.41	114.18	83.70	-5,176.70	-486.94	2,400.65	2,179.97	220.67	10.879	
15,400.00	7,870.00	14,364.10	7,598.42	113.05	115.95	83.77	-5,280.67	-490.48	2,403.40	2,179.22	224.18	10.721	
15,500.00	7,870.00	14,495.21	7,601.71	114.70	118.18	83.86	-5,411.67	-494.60	2,406.07	2,177.61	228.47	10.531	
15,600.00	7,870.00	14,637.77	7,603.69	116.35	120.62	83.91	-5,554.21	-495.50	2,406.07	2,173.05	233.02	10.326	
15,612.86	7,870.00	14,640.52	7,603.72	116.56	120.67	83.91	-5,556.96	-495.54	2,406.08	2,172.90	233.19	10.318	
15,700.00	7,870.00	14,701.91	7,604.28	118.00	121.72	83.92	-5,618.34	-496.14	2,406.55	2,171.12	235.43	10.222	
15,800.00	7,870.00	14,865.57	7,605.98	119.66	124.54	83.96	-5,781.99	-496.39	2,406.22	2,165.69	240.54	10.004	
15,900.00	7,870.00	14,978.06	7,606.87	121.32	126.48	83.98	-5,894.46	-494.69	2,404.30	2,160.04	244.26	9.843	
16,000.00	7,870.00	15,092.52	7,607.29	122.98	128.47	83.98	-6,008.90	-492.39	2,401.92	2,153.90	248.02	9.684	
16,100.00	7,870.00	15,183.64	7,607.40	124.65	130.05	83.98	-6,099.99	-490.10	2,399.10	2,147.90	251.20	9.551	
16,200.00	7,870.00	15,246.00	7,607.91	126.32	131.13	83.99	-6,162.35	-489.48	2,397.64	2,144.00	253.64	9.453	
16,300.00	7,870.00	15,329.96	7,609.03	127.99	132.58	84.01	-6,246.30	-489.63	2,397.32	2,140.70	256.62	9.342	
16,400.00	7,870.00	15,444.42	7,610.74	129.66	134.55	84.05	-6,360.74	-489.80	2,396.98	2,136.54	260.44	9.204	
16,500.00	7,870.00	15,556.88	7,611.94	131.33	136.50	84.08	-6,473.19	-489.11	2,395.91	2,131.71	264.19	9.069	
16,600.00	7,870.00	15,653.45	7,612.46	133.01	138.18	84.09	-6,569.76	-488.36	2,394.74	2,127.22	267.52	8.951	
16,700.00	7,870.00	15,759.30	7,612.50	134.69	140.01	84.09	-6,675.61	-487.55	2,393.65	2,122.55	271.10	8.830	
16,800.00	7,870.00	15,872.21	7,612.07	136.37	141.97	84.07	-6,788.51	-486.10	2,392.07	2,117.23	274.84	8.703	
16,900.00	7,870.00	15,999.53	7,611.08	138.06	144.19	84.04	-6,915.79	-483.25	2,389.57	2,110.63	278.94	8.567	
17,000.00	7,870.00	16,081.83	7,610.15	139.74	145.62	84.01	-6,998.06	-480.96	2,386.65	2,104.73	281.92	8.466	
17,100.00	7,870.00	16,142.11	7,609.69	141.43	146.67	84.00	-7,058.33	-480.29	2,385.26	2,100.96	284.29	8.390	
17,200.00	7,870.00	16,231.12	7,609.09	143.12	148.22	83.99	-7,147.33	-480.21	2,384.90	2,097.49	287.41	8.298	
17,293.01	7,870.00	16,322.55	7,608.11	144.69	149.80	83.96	-7,238.76	-480.33	2,384.81	2,094.27	290.54	8.208	
17,300.00	7,870.00	16,327.72	7,608.07	144.81	149.89	83.96	-7,243.93	-480.34	2,384.81	2,094.08	290.73	8.203	
17,400.00	7,870.00	16,415.05	7,608.70	146.50	151.41	83.98	-7,331.25	-480.96	2,385.10	2,091.29	293.81	8.118	
17,500.00	7,870.00	16,507.79	7,611.24	148.19	153.02	84.04	-7,423.94	-482.20	2,385.81	2,088.75	297.07	8.031	
17,600.00	7,870.00	16,606.60	7,614.65	149.89	154.73	84.12	-7,522.68	-483.79	2,386.72	2,086.21	300.51	7.942	
17,700.00	7,870.00	16,708.47	7,618.49	151.59	156.49	84.22	-7,624.47	-485.37	2,387.54	2,083.49	304.05	7.852	
17,800.00	7,870.00	16,807.23	7,622.62	153.29	158.21	84.32	-7,723.13	-486.99	2,388.41	2,080.91	307.51	7.767	
17,900.00	7,870.00	16,911.83	7,626.90	154.99	160.02	84.43	-7,827.63	-488.62	2,389.23	2,078.10	311.14	7.679	
18,000.00	7,870.00	16,997.51	7,628.83	156.69	161.51	84.47	-7,913.27	-489.84	2,390.11	2,075.93	314.18	7.607	
18,100.00	7,870.00	17,082.44	7,629.97	158.39	162.98	84.50	-7,998.18	-491.66	2,391.77	2,074.59	317.19	7.541	
18,200.00	7,870.00	17,172.84	7,631.04	160.09	164.54	84.53	-8,088.55	-494.01	2,393.91	2,073.56	320.35	7.473	
18,300.00	7,870.00	17,260.13	7,631.70	161.80	166.05	84.56	-8,175.79	-496.61	2,396.46	2,073.06	323.40	7.410	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 586-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.00	7,870.00	17,353.26	7,631.96	163.51	167.66	84.57	-8,268.87	-499.82	2,399.53	2,072.90	326.62	7.346	
18,455.45	7,870.00	17,401.67	7,631.92	164.45	168.50	84.57	-8,317.25	-501.54	2,401.31	2,073.00	328.30	7.314	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 229-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.85	786.16	-1,000.98	1,272.84				
100.00	100.00	88.54	88.54	0.13	0.14	-51.86	786.15	-1,001.00	1,272.81	1,272.53	0.28	4,591.529	CC
200.00	200.00	188.02	188.02	0.49	0.30	-51.86	786.12	-1,001.09	1,272.86	1,272.07	0.80	1,598.869	
300.00	300.00	284.74	284.74	0.85	0.57	-51.86	786.15	-1,001.27	1,273.02	1,271.61	1.42	897.412	
400.00	400.00	379.52	379.52	1.21	0.90	-51.86	786.49	-1,001.66	1,273.56	1,271.45	2.11	602.566	
500.00	500.00	474.29	474.29	1.57	1.24	-51.85	787.18	-1,002.26	1,274.51	1,271.71	2.81	453.807	
600.00	600.00	569.05	569.04	1.93	1.58	-51.84	788.22	-1,003.08	1,275.87	1,272.37	3.50	364.197	
700.00	700.00	669.89	669.86	2.29	1.93	-51.83	789.43	-1,004.11	1,277.42	1,273.20	4.22	302.715	
800.00	800.00	766.32	766.28	2.64	2.28	-51.81	790.69	-1,005.13	1,279.06	1,274.14	4.92	259.893	
900.00	900.00	876.85	876.74	3.00	2.67	-51.66	794.29	-1,004.38	1,280.55	1,274.89	5.67	225.979	
1,000.00	1,000.00	983.22	982.77	3.36	3.04	-51.29	801.19	-999.64	1,281.11	1,274.71	6.40	200.207	
1,100.00	1,100.00	1,078.77	1,077.91	3.72	3.38	-50.89	808.45	-994.59	1,281.77	1,274.67	7.10	180.518	
1,200.00	1,200.00	1,198.24	1,196.77	4.08	3.82	-50.36	817.99	-987.37	1,282.22	1,274.32	7.90	162.386	
1,300.00	1,300.00	1,294.45	1,292.53	4.44	4.18	-49.94	824.98	-981.10	1,281.86	1,273.25	8.61	148.851	
1,400.00	1,399.98	1,396.51	1,393.81	4.79	4.56	-92.41	834.16	-972.61	1,281.41	1,272.05	9.36	136.963	
1,418.80	1,418.77	1,412.78	1,409.94	4.86	4.63	-92.34	835.78	-971.16	1,281.38	1,271.90	9.49	135.086	
1,500.00	1,499.84	1,491.31	1,487.73	5.15	4.94	-92.05	843.96	-964.29	1,281.68	1,271.60	10.08	127.120	
1,600.00	1,599.45	1,588.47	1,583.50	5.51	5.33	-91.69	856.24	-953.48	1,281.90	1,271.06	10.84	118.308	ES
1,700.00	1,698.70	1,666.98	1,660.76	5.87	5.66	-91.46	867.26	-944.99	1,283.41	1,271.88	11.53	111.351	
1,800.00	1,797.47	1,747.50	1,740.03	6.24	6.00	-91.33	879.36	-937.65	1,286.89	1,274.65	12.24	105.165	
1,900.00	1,895.62	1,852.90	1,843.59	6.63	6.46	-91.29	896.24	-927.60	1,290.84	1,277.76	13.08	98.677	
2,000.00	1,993.06	1,941.82	1,930.92	7.04	6.84	-91.37	910.48	-918.84	1,294.69	1,280.81	13.88	93.304	
2,100.00	2,089.64	2,028.00	2,015.66	7.48	7.22	-91.59	924.61	-912.09	1,300.30	1,285.62	14.68	88.558	
2,200.00	2,185.27	2,175.90	2,160.80	7.94	7.88	-92.20	949.02	-897.59	1,304.91	1,289.10	15.82	82.491	
2,300.00	2,279.82	2,253.58	2,236.97	8.45	8.24	-92.59	961.57	-888.94	1,308.34	1,291.66	16.67	78.480	
2,400.00	2,373.17	2,333.90	2,315.75	8.99	8.60	-93.09	975.04	-880.98	1,313.44	1,295.86	17.57	74.746	
2,500.00	2,465.21	2,411.00	2,391.41	9.58	8.95	-93.66	988.35	-874.46	1,320.42	1,301.93	18.50	71.389	
2,574.08	2,532.50	2,470.56	2,449.88	10.04	9.22	-94.16	998.90	-870.21	1,326.93	1,307.71	19.22	69.043	
2,600.00	2,555.89	2,492.00	2,470.93	10.21	9.32	-94.40	1,002.71	-868.81	1,329.42	1,309.94	19.48	68.249	
2,700.00	2,646.16	2,572.69	2,550.22	10.88	9.68	-95.32	1,016.93	-864.33	1,340.02	1,319.54	20.48	65.423	
2,800.00	2,736.44	2,677.74	2,653.46	11.57	10.15	-96.51	1,035.61	-859.01	1,351.63	1,329.99	21.63	62.476	
2,900.00	2,826.71	2,800.39	2,773.63	12.27	10.72	-97.77	1,058.37	-849.79	1,362.16	1,339.25	22.91	59.457	
3,000.00	2,916.98	2,960.85	2,931.16	13.00	11.46	-99.43	1,084.76	-834.64	1,370.78	1,346.42	24.37	56.257	
3,100.00	3,007.25	3,039.22	3,008.29	13.73	11.82	-100.27	1,095.99	-826.47	1,377.59	1,352.16	25.43	54.177	
3,200.00	3,097.52	3,178.65	3,145.45	14.48	12.44	-101.76	1,114.41	-809.65	1,382.63	1,355.87	26.76	51.671	
3,300.00	3,187.80	3,272.37	3,237.86	15.23	12.86	-102.80	1,125.65	-798.70	1,388.23	1,360.35	27.89	49.784	
3,400.00	3,278.07	3,375.30	3,339.21	15.99	13.32	-103.91	1,138.19	-785.93	1,393.83	1,364.78	29.05	47.976	
3,500.00	3,368.34	3,458.33	3,420.82	16.76	13.69	-104.76	1,149.21	-775.31	1,400.10	1,369.96	30.14	46.452	
3,600.00	3,458.61	3,544.50	3,505.71	17.54	14.08	-105.67	1,160.30	-765.57	1,407.89	1,376.65	31.24	45.072	
3,700.00	3,548.89	3,630.41	3,590.19	18.32	14.47	-106.53	1,172.48	-755.80	1,416.65	1,384.33	32.32	43.826	
3,800.00	3,639.16	3,724.50	3,683.04	19.10	14.89	-107.53	1,184.51	-746.47	1,426.55	1,393.11	33.44	42.663	
3,900.00	3,729.43	3,837.75	3,794.32	19.89	15.42	-108.62	1,201.12	-733.52	1,436.31	1,401.66	34.65	41.451	
4,000.00	3,819.70	3,910.22	3,865.50	20.69	15.75	-109.30	1,211.88	-725.24	1,446.53	1,410.87	35.66	40.561	
4,100.00	3,909.98	3,990.43	3,944.68	21.48	16.11	-110.12	1,222.52	-718.17	1,458.85	1,422.16	36.69	39.762	
4,200.00	4,000.25	4,094.14	4,046.90	22.28	16.57	-111.13	1,237.08	-708.43	1,471.39	1,433.56	37.83	38.900	
4,300.00	4,090.52	4,188.52	4,139.76	23.08	17.00	-111.99	1,251.28	-699.30	1,484.40	1,445.48	38.92	38.141	
4,400.00	4,180.79	4,285.34	4,234.96	23.88	17.45	-112.85	1,266.10	-689.80	1,497.74	1,457.71	40.02	37.421	
4,500.00	4,271.06	4,368.38	4,316.56	24.69	17.83	-113.57	1,279.21	-681.77	1,511.70	1,470.66	41.05	36.830	
4,600.00	4,361.34	4,477.49	4,424.19	25.49	18.32	-114.57	1,294.59	-672.61	1,526.75	1,484.57	42.18	36.195	
4,700.00	4,451.61	4,560.00	4,505.38	26.30	18.70	-115.28	1,307.01	-664.74	1,541.33	1,498.15	43.18	35.698	
4,800.00	4,541.88	4,673.29	4,617.17	27.11	19.20	-116.29	1,322.59	-655.10	1,556.90	1,512.59	44.31	35.136	
4,900.00	4,632.15	4,779.23	4,721.46	27.92	19.68	-117.18	1,337.74	-644.30	1,571.28	1,525.87	45.41	34.603	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 229-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,854.00	4,795.15	28.74	20.02	-117.81	1,348.33	-637.31	1,586.73	1,540.39	46.34	34.244	
5,100.00	4,812.70	4,988.91	4,927.69	29.55	20.65	-118.86	1,368.77	-622.75	1,601.21	1,553.62	47.59	33.648	
5,200.00	4,902.97	5,067.76	5,005.05	30.37	21.02	-119.45	1,381.16	-613.88	1,615.84	1,567.30	48.54	33.286	
5,300.00	4,993.24	5,157.06	5,093.02	31.18	21.43	-120.15	1,393.90	-605.31	1,631.98	1,582.46	49.53	32.951	
5,400.00	5,083.51	5,256.56	5,190.82	32.00	21.88	-120.89	1,408.91	-594.83	1,647.67	1,597.11	50.56	32.587	
5,500.00	5,173.79	5,406.05	5,337.85	32.82	22.58	-122.02	1,430.08	-578.26	1,663.23	1,611.41	51.83	32.093	
5,600.00	5,264.06	5,477.00	5,407.46	33.63	22.91	-122.52	1,440.39	-569.19	1,677.29	1,624.58	52.71	31.819	
5,700.00	5,354.33	5,547.00	5,476.36	34.45	23.23	-123.04	1,449.98	-561.43	1,693.11	1,639.55	53.56	31.613	
5,800.00	5,444.60	5,650.48	5,578.39	35.27	23.70	-123.82	1,463.89	-551.24	1,710.30	1,655.74	54.56	31.346	
5,900.00	5,534.88	5,718.76	5,645.70	36.09	24.00	-124.31	1,473.26	-544.61	1,727.92	1,672.55	55.37	31.208	
6,000.00	5,625.15	5,813.46	5,739.37	36.91	24.41	-125.04	1,484.75	-536.78	1,746.99	1,690.70	56.28	31.039	
6,100.00	5,715.42	5,922.70	5,846.93	37.74	24.91	-125.77	1,500.83	-526.71	1,765.67	1,708.35	57.32	30.805	
6,200.00	5,805.69	5,985.42	5,908.47	38.56	25.20	-126.13	1,511.58	-521.16	1,785.12	1,727.02	58.10	30.727	
6,300.00	5,895.96	6,300.00	6,014.77	39.38	26.65	-126.79	1,528.82	-512.29	1,805.25	1,745.19	60.06	30.056	
6,400.00	5,986.24	6,170.46	6,090.53	40.20	26.05	-127.26	1,540.76	-505.66	1,825.31	1,765.34	59.97	30.438	
6,500.00	6,076.51	6,288.47	6,206.98	41.03	26.57	-128.00	1,557.70	-496.86	1,846.56	1,785.53	61.03	30.257	
6,600.00	6,166.78	6,373.94	6,291.37	41.85	26.95	-128.55	1,569.32	-490.01	1,867.33	1,805.46	61.88	30.178	
6,700.00	6,257.05	6,498.57	6,414.46	42.67	27.50	-129.35	1,585.59	-479.18	1,887.66	1,824.72	62.94	29.992	
6,800.00	6,347.33	6,650.10	6,563.45	43.50	28.20	-130.21	1,607.88	-462.94	1,906.40	1,842.23	64.16	29.712	
6,900.00	6,437.60	6,696.25	6,608.79	44.32	28.41	-130.46	1,614.99	-458.12	1,925.16	1,860.34	64.82	29.702	
7,000.00	6,527.87	6,753.36	6,664.90	45.15	28.68	-130.75	1,624.41	-453.14	1,946.05	1,880.55	65.50	29.710	
7,100.00	6,618.14	6,814.00	6,724.72	45.98	28.95	-131.08	1,633.52	-449.08	1,969.00	1,902.83	66.17	29.756	
7,200.00	6,708.41	6,978.03	6,886.24	46.80	29.69	-131.93	1,658.45	-435.34	1,990.03	1,922.50	67.53	29.469	
7,300.00	6,798.69	7,031.11	6,938.46	47.63	29.93	-132.19	1,666.84	-430.79	2,011.63	1,943.47	68.16	29.512	
7,400.00	6,888.96	7,438.00	7,334.75	48.45	31.49	-135.67	1,673.85	-362.52	2,019.82	1,950.37	69.45	29.083	
7,500.00	6,979.23	7,438.00	7,334.75	49.28	31.49	-135.67	1,673.85	-362.52	2,031.17	1,961.12	70.05	28.994	
7,600.00	7,069.50	7,482.56	7,376.65	50.11	31.54	-136.39	1,661.29	-354.09	2,045.83	1,975.47	70.36	29.076	
7,692.09	7,152.63	7,527.00	7,417.87	50.87	31.60	-137.17	1,646.01	-347.67	2,063.26	1,992.70	70.55	29.245	
7,700.00	7,159.79	7,527.00	7,417.87	50.93	31.60	-138.54	1,646.01	-347.67	2,064.81	1,994.23	70.58	29.256	
7,750.00	7,205.70	7,527.00	7,417.87	51.32	31.60	-148.67	1,646.01	-347.67	2,075.21	2,004.48	70.73	29.340	
7,800.00	7,252.52	7,527.00	7,417.87	51.66	31.60	-161.57	1,646.01	-347.67	2,086.55	2,015.71	70.84	29.454	
7,850.00	7,299.89	7,527.00	7,417.87	51.96	31.60	-177.07	1,646.01	-347.67	2,098.73	2,027.82	70.92	29.595	
7,900.00	7,347.44	7,527.00	7,417.87	52.20	31.60	166.24	1,646.01	-347.67	2,111.66	2,040.71	70.95	29.761	
7,950.00	7,394.83	7,565.46	7,452.88	52.39	31.60	150.23	1,630.56	-343.95	2,123.82	2,052.94	70.88	29.963	
8,000.00	7,441.68	7,577.11	7,463.33	52.53	31.60	136.93	1,625.46	-343.20	2,136.91	2,066.05	70.86	30.159	
8,050.00	7,487.65	7,616.00	7,497.58	52.62	31.61	126.22	1,607.10	-341.97	2,150.83	2,080.08	70.75	30.400	
8,100.00	7,532.37	7,616.00	7,497.58	52.67	31.61	118.00	1,607.10	-341.97	2,163.60	2,092.87	70.73	30.588	
8,150.00	7,575.52	7,616.00	7,497.58	52.67	31.61	111.46	1,607.10	-341.97	2,176.55	2,105.84	70.71	30.783	
8,200.00	7,616.76	7,616.00	7,497.58	52.63	31.61	106.16	1,607.10	-341.97	2,189.57	2,118.90	70.67	30.983	
8,250.00	7,655.77	7,657.60	7,533.21	52.55	31.58	101.95	1,585.64	-342.02	2,201.80	2,131.25	70.55	31.210	
8,300.00	7,692.27	7,682.10	7,553.77	52.44	31.56	98.49	1,572.31	-342.34	2,213.52	2,143.05	70.47	31.410	
8,350.00	7,725.97	7,709.54	7,576.40	52.29	31.54	95.68	1,556.81	-342.94	2,224.53	2,154.13	70.39	31.601	
8,400.00	7,756.62	7,787.20	7,638.15	52.12	31.47	93.75	1,509.76	-344.10	2,234.15	2,163.99	70.16	31.845	
8,450.00	7,783.98	7,854.81	7,688.77	51.92	31.39	92.26	1,464.96	-343.99	2,241.93	2,172.02	69.92	32.065	
8,500.00	7,807.85	7,908.73	7,726.56	51.70	31.32	91.10	1,426.53	-343.30	2,248.08	2,178.36	69.72	32.243	
8,550.00	7,828.05	7,952.59	7,755.32	51.45	31.26	90.22	1,393.43	-342.60	2,252.94	2,183.37	69.57	32.382	
8,600.00	7,844.41	7,973.00	7,768.05	51.20	31.23	89.47	1,377.48	-342.26	2,256.69	2,187.12	69.57	32.440	
8,650.00	7,856.82	8,005.91	7,787.68	50.93	31.17	89.10	1,351.07	-341.95	2,259.48	2,189.98	69.50	32.510	
8,700.00	7,865.18	8,026.99	7,799.64	50.65	31.14	88.86	1,333.71	-342.03	2,261.58	2,192.06	69.52	32.531	
8,750.00	7,869.43	8,062.00	7,818.44	50.36	31.08	89.02	1,304.19	-342.61	2,263.03	2,193.57	69.47	32.576	
8,776.25	7,870.00	8,062.00	7,818.44	50.21	31.08	88.97	1,304.19	-342.61	2,263.37	2,193.81	69.56	32.538	
8,800.00	7,870.00	8,150.00	7,859.88	50.08	30.92	90.02	1,226.61	-343.27	2,263.45	2,194.36	69.09	32.761	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 229-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,863.49	7,870.00	8,187.92	7,875.13	49.73	30.85	90.41	1,191.89	-343.09	2,263.03	2,193.93	69.10	32.752	
8,900.00	7,870.00	8,209.43	7,883.05	49.53	30.81	90.61	1,171.90	-343.16	2,263.16	2,194.07	69.09	32.757	
9,000.00	7,870.00	8,358.04	7,925.07	49.01	30.56	91.67	1,029.50	-343.22	2,263.66	2,195.06	68.60	32.998	
9,100.00	7,870.00	8,453.52	7,936.56	48.52	30.44	91.96	934.81	-341.86	2,262.28	2,193.79	68.50	33.027	
9,160.29	7,870.00	8,493.28	7,938.34	48.24	30.41	92.01	895.09	-341.75	2,262.01	2,193.45	68.56	32.991	
9,200.00	7,870.00	8,528.17	7,938.99	48.06	30.39	92.03	860.20	-341.92	2,262.09	2,193.52	68.57	32.988	
9,300.00	7,870.00	8,642.52	7,941.69	47.63	30.50	92.09	745.89	-342.13	2,262.02	2,193.36	68.66	32.945	
9,378.62	7,870.00	8,711.96	7,943.49	47.30	30.72	92.14	676.47	-341.96	2,261.67	2,192.76	68.91	32.820	
9,400.00	7,870.00	8,725.44	7,943.83	47.22	30.77	92.15	662.99	-342.02	2,261.70	2,192.71	68.99	32.783	
9,500.00	7,870.00	8,811.50	7,946.06	46.83	31.19	92.21	576.97	-343.17	2,262.74	2,193.29	69.45	32.582	
9,600.00	7,870.00	8,971.94	7,951.37	46.48	32.20	92.34	416.63	-342.61	2,262.07	2,191.82	70.25	32.200	
9,700.00	7,870.00	9,061.32	7,952.13	46.14	32.87	92.36	327.26	-341.65	2,260.69	2,189.61	71.08	31.807	
9,800.00	7,870.00	9,159.24	7,951.88	45.83	33.67	92.36	229.35	-340.62	2,259.29	2,187.22	72.07	31.347	
9,900.00	7,870.00	9,256.20	7,953.48	45.54	34.52	92.40	132.40	-340.22	2,258.60	2,185.37	73.22	30.846	
10,000.00	7,870.00	9,344.65	7,955.44	45.27	35.35	92.45	43.98	-339.16	2,257.23	2,182.79	74.44	30.323	
10,022.75	7,870.00	9,356.02	7,955.67	45.21	35.46	92.45	32.61	-339.16	2,257.17	2,182.51	74.66	30.233	
10,100.00	7,870.00	9,398.00	7,956.41	45.03	35.87	92.47	-9.35	-339.66	2,257.84	2,182.42	75.42	29.938	
10,200.00	7,870.00	9,543.62	7,959.03	44.82	37.37	92.54	-154.94	-341.10	2,258.64	2,181.21	77.43	29.170	
10,300.00	7,870.00	9,693.86	7,963.08	44.66	39.04	92.64	-305.11	-338.96	2,256.96	2,177.21	79.75	28.299	
10,400.00	7,870.00	9,781.82	7,965.12	44.56	40.07	92.70	-393.01	-336.59	2,254.11	2,172.65	81.46	27.671	
10,500.00	7,870.00	9,843.00	7,967.16	44.58	40.80	92.75	-454.15	-336.19	2,253.09	2,170.23	82.86	27.191	
10,509.51	7,870.00	9,843.00	7,967.16	44.59	40.80	92.75	-454.15	-336.19	2,253.07	2,170.15	82.92	27.173	
10,600.00	7,870.00	9,926.54	7,970.52	44.82	41.83	92.84	-537.63	-336.62	2,253.40	2,168.76	84.64	26.622	
10,700.00	7,870.00	10,032.84	7,972.98	45.36	43.16	92.90	-643.88	-337.16	2,253.69	2,166.85	86.85	25.950	
10,800.00	7,870.00	10,156.96	7,973.75	46.15	44.76	92.92	-768.00	-336.27	2,252.54	2,163.10	89.44	25.185	
10,900.00	7,870.00	10,260.96	7,971.75	47.09	46.14	92.87	-871.98	-335.89	2,251.75	2,159.97	91.79	24.533	
11,000.00	7,870.00	10,395.22	7,967.89	48.13	47.98	92.78	-1,006.16	-333.56	2,249.45	2,154.69	94.76	23.739	
11,100.00	7,870.00	10,467.00	7,965.72	49.22	48.98	92.72	-1,077.90	-332.47	2,247.43	2,150.75	96.67	23.248	
11,200.00	7,870.00	10,536.04	7,964.37	50.37	49.95	92.69	-1,146.93	-332.30	2,246.71	2,148.15	98.56	22.795	
11,208.30	7,870.00	10,542.08	7,964.32	50.46	50.03	92.69	-1,152.96	-332.32	2,246.71	2,147.98	98.73	22.757	
11,300.00	7,870.00	10,611.70	7,964.35	51.55	51.02	92.69	-1,222.57	-332.91	2,247.17	2,146.56	100.61	22.335	
11,400.00	7,870.00	11,400.00	7,967.21	52.76	62.37	92.76	-1,333.62	-333.94	2,247.87	2,134.67	113.20	19.857	
11,500.00	7,870.00	10,868.53	7,972.36	54.00	54.74	92.89	-1,479.26	-332.92	2,246.85	2,139.75	107.10	20.980	
11,600.00	7,870.00	10,980.55	7,974.96	55.27	56.42	92.96	-1,591.24	-331.10	2,245.01	2,134.92	110.09	20.392	
11,700.00	7,870.00	11,072.35	7,974.24	56.56	57.80	92.95	-1,683.02	-329.57	2,242.97	2,130.29	112.68	19.905	
11,800.00	7,870.00	11,172.02	7,971.05	57.88	59.31	92.87	-1,782.63	-328.57	2,241.47	2,126.00	115.47	19.411	
11,900.00	7,870.00	11,285.74	7,967.42	59.21	61.05	92.78	-1,896.28	-326.84	2,239.45	2,120.84	118.62	18.880	
12,000.00	7,870.00	11,378.97	7,964.89	60.57	62.50	92.71	-1,989.46	-325.25	2,237.28	2,115.94	121.34	18.438	
12,100.00	7,870.00	11,465.38	7,963.02	61.94	63.84	92.67	-2,075.84	-324.16	2,235.58	2,111.65	123.94	18.038	
12,200.00	7,870.00	11,546.63	7,961.49	63.33	65.11	92.63	-2,157.08	-323.71	2,234.60	2,108.18	126.43	17.675	
12,258.94	7,870.00	11,593.19	7,960.68	64.16	65.84	92.61	-2,203.63	-323.78	2,234.44	2,106.57	127.87	17.474	
12,300.00	7,870.00	11,625.38	7,960.17	64.74	66.34	92.60	-2,235.81	-323.97	2,234.52	2,105.65	128.87	17.340	
12,400.00	7,870.00	11,700.52	7,959.20	66.16	67.52	92.57	-2,310.94	-324.97	2,235.45	2,104.23	131.22	17.036	
12,500.00	7,870.00	11,773.63	7,958.54	67.59	68.66	92.55	-2,384.02	-326.78	2,237.56	2,104.03	133.52	16.758	
12,600.00	7,870.00	11,851.90	7,957.67	69.04	69.89	92.53	-2,462.24	-329.68	2,240.84	2,104.89	135.95	16.482	
12,700.00	7,870.00	11,942.63	7,956.72	70.51	71.32	92.50	-2,552.88	-333.53	2,244.70	2,105.97	138.73	16.181	
12,800.00	7,870.00	12,034.91	7,956.04	71.98	72.77	92.48	-2,645.05	-337.90	2,249.05	2,107.49	141.56	15.887	
12,900.00	7,870.00	12,155.00	7,956.46	73.47	74.67	92.48	-2,765.02	-343.23	2,253.19	2,108.01	145.19	15.519	
13,000.00	7,870.00	12,262.27	7,957.48	74.96	76.39	92.50	-2,872.22	-347.05	2,256.44	2,107.95	148.49	15.196	
13,100.00	7,870.00	12,380.62	7,958.76	76.47	78.29	92.53	-2,990.51	-350.53	2,259.06	2,106.95	152.12	14.851	
13,200.00	7,870.00	12,459.74	7,959.08	77.99	79.57	92.54	-3,069.59	-353.04	2,261.91	2,107.23	154.68	14.624	
13,300.00	7,870.00	12,538.00	7,959.18	79.51	80.83	92.54	-3,147.78	-356.32	2,265.75	2,108.55	157.21	14.413	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 229-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	7,870.00	12,644.55	7,959.98	81.05	82.56	92.55	-3,254.22	-361.08	2,269.91	2,109.36	160.55	14.138	
13,500.00	7,870.00	12,746.12	7,960.72	82.59	84.21	92.57	-3,355.69	-365.42	2,273.87	2,110.10	163.78	13.884	
13,600.00	7,870.00	12,852.42	7,961.23	84.14	85.94	92.57	-3,461.91	-369.80	2,277.67	2,110.52	167.15	13.626	
13,700.00	7,870.00	13,029.61	7,958.97	85.70	88.85	92.51	-3,638.99	-374.85	2,280.53	2,108.01	172.52	13.219	
13,800.00	7,870.00	13,263.91	7,949.31	87.26	92.77	92.28	-3,872.97	-368.65	2,276.75	2,097.59	179.16	12.708	
13,900.00	7,870.00	13,407.62	7,945.34	88.83	95.21	92.19	-4,016.34	-359.65	2,270.00	2,086.55	183.45	12.374	
14,000.00	7,870.00	13,592.11	7,943.16	90.41	98.36	92.15	-4,200.11	-343.73	2,261.36	2,072.80	188.55	11.993	
14,100.00	7,870.00	13,713.75	7,945.04	92.00	100.46	92.21	-4,320.89	-329.34	2,249.18	2,056.86	192.32	11.695	
14,200.00	7,870.00	13,786.00	7,946.14	93.59	101.71	92.25	-4,392.64	-321.01	2,237.42	2,042.31	195.11	11.467	
14,300.00	7,870.00	13,853.94	7,947.16	95.18	102.88	92.28	-4,460.22	-314.07	2,226.96	2,029.17	197.78	11.259	
14,400.00	7,870.00	13,914.93	7,948.12	96.79	103.93	92.31	-4,520.97	-308.83	2,218.12	2,017.85	200.27	11.076	
14,500.00	7,870.00	13,964.00	7,948.77	98.39	104.77	92.33	-4,569.92	-305.44	2,211.13	2,008.72	202.41	10.924	
14,600.00	7,870.00	14,034.84	7,949.72	100.00	105.98	92.36	-4,640.66	-301.82	2,205.85	2,000.82	205.02	10.759	
14,700.00	7,870.00	14,092.09	7,950.56	101.62	106.96	92.38	-4,697.88	-300.02	2,202.45	1,995.21	207.24	10.628	
14,800.00	7,870.00	14,142.00	7,951.15	103.24	107.81	92.40	-4,747.78	-299.41	2,201.05	1,991.88	209.17	10.523	
14,820.44	7,870.00	14,158.40	7,951.31	103.57	108.09	92.40	-4,764.18	-299.41	2,201.00	1,991.27	209.73	10.494	
14,900.00	7,870.00	14,200.26	7,951.58	104.87	108.79	92.41	-4,806.04	-299.92	2,201.72	1,990.47	211.25	10.422	
15,000.00	7,870.00	14,268.25	7,951.70	106.50	109.94	92.41	-4,873.99	-302.04	2,204.41	1,990.84	213.57	10.321	
15,100.00	7,870.00	14,372.53	7,951.60	108.13	111.69	92.41	-4,978.20	-305.84	2,207.72	1,990.68	217.04	10.172	
15,200.00	7,870.00	14,552.97	7,952.17	109.77	114.74	92.42	-5,158.60	-308.71	2,209.03	1,986.20	222.83	9.913	
15,300.00	7,870.00	14,657.16	7,954.22	111.41	116.52	92.47	-5,262.76	-307.96	2,208.05	1,981.72	226.32	9.756	
15,384.04	7,870.00	14,723.22	7,955.66	112.79	117.65	92.51	-5,328.81	-307.81	2,207.66	1,979.03	228.63	9.656	
15,400.00	7,870.00	14,735.15	7,955.91	113.05	117.85	92.52	-5,340.74	-307.85	2,207.68	1,978.63	229.05	9.638	
15,500.00	7,870.00	14,810.10	7,957.24	114.70	119.13	92.55	-5,415.67	-308.61	2,208.43	1,976.77	231.66	9.533	
15,600.00	7,870.00	14,884.34	7,958.01	116.35	120.39	92.57	-5,489.89	-310.22	2,210.32	1,976.10	234.22	9.437	
15,700.00	7,870.00	14,960.86	7,958.19	118.00	121.68	92.57	-5,566.36	-312.85	2,213.39	1,976.58	236.82	9.346	
15,800.00	7,870.00	15,071.79	7,958.78	119.66	123.56	92.58	-5,677.20	-317.18	2,217.01	1,976.47	240.54	9.217	
15,900.00	7,870.00	15,200.79	7,962.48	121.32	125.76	92.67	-5,806.11	-320.24	2,219.10	1,974.25	244.85	9.063	
16,000.00	7,870.00	15,310.04	7,966.91	122.98	127.63	92.79	-5,915.25	-322.07	2,220.63	1,972.10	248.53	8.935	
16,100.00	7,870.00	15,413.95	7,970.37	124.65	129.41	92.87	-6,019.10	-323.45	2,221.79	1,969.74	252.05	8.815	
16,200.00	7,870.00	15,511.25	7,973.32	126.32	131.07	92.95	-6,116.35	-324.94	2,223.12	1,967.76	255.36	8.706	
16,300.00	7,870.00	15,629.57	7,977.25	127.99	133.10	93.05	-6,234.59	-326.18	2,224.01	1,964.68	259.33	8.576	
16,400.00	7,870.00	15,727.94	7,980.21	129.66	134.79	93.12	-6,332.92	-326.73	2,224.39	1,961.71	262.68	8.468	
16,500.00	7,870.00	15,832.84	7,983.88	131.33	136.60	93.22	-6,437.75	-327.38	2,224.87	1,958.63	266.24	8.357	
16,600.00	7,870.00	15,912.66	7,986.59	133.01	137.97	93.29	-6,517.51	-328.10	2,225.62	1,956.60	269.03	8.273	
16,700.00	7,870.00	15,998.03	7,989.28	134.69	139.44	93.35	-6,602.83	-329.57	2,227.19	1,955.23	271.97	8.189	
16,800.00	7,870.00	16,084.58	7,992.18	136.37	140.92	93.43	-6,689.31	-331.59	2,229.38	1,954.44	274.94	8.109	
16,900.00	7,870.00	16,167.07	7,994.93	138.06	142.34	93.49	-6,771.72	-334.06	2,232.24	1,954.48	277.76	8.037	
17,000.00	7,870.00	16,240.82	7,997.15	139.74	143.60	93.55	-6,845.38	-336.97	2,236.04	1,955.79	280.26	7.979	
17,100.00	7,870.00	16,323.99	7,999.39	141.43	145.02	93.60	-6,928.40	-341.28	2,241.01	1,957.95	283.06	7.917	
17,200.00	7,870.00	16,415.51	8,002.02	143.12	146.57	93.66	-7,019.74	-346.28	2,246.31	1,960.16	286.15	7.850	
17,300.00	7,870.00	16,506.47	8,003.75	144.81	148.12	93.69	-7,110.52	-351.78	2,252.13	1,962.91	289.22	7.787	
17,400.00	7,870.00	16,606.95	8,005.32	146.50	149.83	93.72	-7,210.79	-358.04	2,258.11	1,965.47	292.64	7.716	
17,500.00	7,870.00	16,699.78	8,006.47	148.19	151.41	93.74	-7,303.44	-363.87	2,264.12	1,968.34	295.78	7.655	
17,600.00	7,870.00	16,851.25	8,005.68	149.89	153.99	93.71	-7,454.65	-372.66	2,269.71	1,968.66	301.05	7.539	
17,700.00	7,870.00	17,031.74	8,001.78	151.59	157.10	93.60	-7,635.02	-377.16	2,271.58	1,964.47	307.11	7.397	
17,800.00	7,870.00	17,161.05	7,996.34	153.29	159.34	93.47	-7,764.21	-377.60	2,271.31	1,959.89	311.42	7.293	
17,900.00	7,870.00	17,304.98	7,990.27	154.99	161.84	93.32	-7,908.00	-375.98	2,269.65	1,953.57	316.08	7.181	
18,000.00	7,870.00	17,485.80	7,992.07	156.69	165.01	93.38	-8,088.58	-367.97	2,264.84	1,943.35	321.49	7.045	
18,100.00	7,870.00	17,602.02	7,996.85	158.39	167.06	93.51	-8,204.44	-360.14	2,258.00	1,932.69	325.30	6.941	
18,200.00	7,870.00	17,712.94	8,001.52	160.09	169.01	93.64	-8,314.97	-352.10	2,250.68	1,921.69	328.99	6.841	
18,300.00	7,870.00	17,796.00	8,005.06	161.80	170.48	93.74	-8,397.72	-345.85	2,243.17	1,911.06	332.11	6.754	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 229-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.00	7,870.00	17,796.00	8,005.06	163.51	170.48	93.74	-8,397.72	-345.85	2,238.57	1,905.42	333.15	6.719	
18,453.06	7,870.00	17,796.00	8,005.06	164.41	170.48	93.74	-8,397.72	-345.85	2,237.94	1,904.49	333.45	6.712	
18,455.45	7,870.00	17,796.00	8,005.06	164.45	170.48	93.74	-8,397.72	-345.85	2,237.94	1,904.49	333.46	6.711	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.58	786.15	-991.18	1,265.15				
100.00	100.00	87.78	87.78	0.13	0.15	-51.58	786.13	-991.21	1,265.11	1,264.82	0.28	4,510.955	
200.00	200.00	187.54	187.54	0.49	0.31	-51.59	786.04	-991.31	1,265.13	1,264.33	0.80	1,571.867	
300.00	300.00	287.29	287.29	0.85	0.48	-51.60	785.89	-991.49	1,265.18	1,263.85	1.33	951.787	
400.00	400.00	385.04	385.04	1.21	0.76	-51.61	785.80	-991.71	1,265.30	1,263.33	1.97	641.471	
500.00	500.00	481.89	481.88	1.57	1.10	-51.60	786.14	-991.88	1,265.66	1,262.99	2.67	474.280	
600.00	600.00	578.73	578.72	1.93	1.44	-51.58	786.93	-992.01	1,266.27	1,262.90	3.36	376.348	
700.00	700.00	682.70	682.69	2.29	1.80	-51.56	787.65	-992.22	1,266.86	1,262.77	4.09	309.998	
800.00	800.00	783.86	783.78	2.64	2.16	-51.40	790.59	-990.39	1,267.25	1,262.45	4.80	264.072	
900.00	900.00	885.20	884.97	3.00	2.51	-51.15	795.11	-987.12	1,267.52	1,262.01	5.51	229.923	
1,000.00	1,000.00	986.37	985.88	3.36	2.87	-50.82	800.87	-982.72	1,267.73	1,261.50	6.23	203.354	
1,100.00	1,100.00	1,080.63	1,079.61	3.72	3.22	-50.37	808.76	-976.66	1,268.08	1,261.14	6.94	182.729	
1,200.00	1,200.00	1,221.62	1,219.60	4.08	3.75	-49.63	820.53	-964.99	1,267.07	1,259.24	7.83	161.843	
1,300.00	1,300.00	1,311.26	1,308.60	4.44	4.10	-49.15	827.13	-956.52	1,264.71	1,256.18	8.53	148.195	
1,368.89	1,368.88	1,361.56	1,358.43	4.68	4.30	-91.82	831.99	-951.72	1,264.14	1,255.16	8.98	140.820	CC
1,400.00	1,399.98	1,385.96	1,382.55	4.79	4.40	-91.68	834.81	-949.31	1,264.22	1,255.03	9.19	137.601	ES
1,500.00	1,499.84	1,465.16	1,460.34	5.15	4.73	-91.17	846.52	-940.28	1,265.63	1,255.75	9.87	128.209	
1,600.00	1,599.45	1,540.61	1,533.96	5.51	5.06	-90.66	860.28	-931.11	1,268.97	1,258.41	10.56	120.202	
1,700.00	1,698.70	1,646.07	1,636.95	5.87	5.53	-90.14	879.55	-919.14	1,273.06	1,261.67	11.39	111.735	
1,800.00	1,797.47	1,726.75	1,716.09	6.24	5.89	-89.93	893.29	-911.64	1,277.85	1,265.73	12.12	105.446	
1,900.00	1,895.62	1,854.09	1,841.10	6.63	6.46	-89.88	914.56	-900.02	1,282.63	1,269.55	13.08	98.050	
2,000.00	1,993.06	1,956.36	1,941.64	7.04	6.91	-90.02	929.94	-889.33	1,285.20	1,271.25	13.95	92.145	
2,100.00	2,089.64	2,059.13	2,042.76	7.48	7.37	-90.35	945.55	-879.64	1,288.70	1,273.86	14.84	86.830	
2,200.00	2,185.27	2,199.05	2,180.26	7.94	8.01	-91.01	965.30	-863.03	1,289.60	1,273.66	15.94	80.891	
2,300.00	2,279.82	2,282.49	2,262.21	8.45	8.39	-91.52	976.97	-852.59	1,290.29	1,273.46	16.83	76.679	
2,400.00	2,373.17	2,363.83	2,342.10	8.99	8.76	-92.11	989.03	-843.18	1,292.52	1,274.78	17.74	72.855	
2,500.00	2,465.21	2,444.46	2,421.32	9.58	9.13	-92.79	1,001.55	-834.83	1,296.51	1,277.82	18.69	69.363	
2,574.08	2,532.50	2,510.74	2,486.50	10.04	9.43	-93.44	1,011.83	-828.67	1,300.44	1,280.99	19.45	66.858	
2,600.00	2,555.89	2,533.76	2,509.17	10.21	9.53	-93.71	1,015.34	-826.67	1,301.97	1,282.24	19.72	66.021	
2,700.00	2,646.16	2,620.62	2,594.78	10.88	9.92	-94.75	1,028.31	-819.72	1,308.57	1,287.81	20.77	63.018	
2,800.00	2,736.44	2,706.79	2,679.64	11.57	10.31	-95.77	1,041.78	-813.35	1,316.58	1,294.76	21.82	60.336	
2,900.00	2,826.71	2,811.88	2,782.81	12.27	10.79	-96.91	1,059.74	-804.55	1,325.19	1,302.19	23.00	57.614	
3,000.00	2,916.98	2,965.97	2,933.66	13.00	11.53	-98.47	1,085.93	-787.27	1,332.04	1,307.59	24.45	54.481	
3,100.00	3,007.25	3,060.85	3,026.39	13.73	11.98	-99.38	1,101.35	-774.40	1,336.86	1,311.25	25.62	52.188	
3,200.00	3,097.52	3,156.28	3,120.03	14.48	12.44	-100.38	1,115.65	-762.93	1,342.68	1,315.90	26.78	50.138	
3,300.00	3,187.80	3,285.83	3,247.03	15.23	13.05	-101.70	1,133.95	-745.10	1,346.92	1,318.83	28.09	47.943	
3,400.00	3,278.07	3,372.30	3,331.84	15.99	13.45	-102.60	1,145.60	-732.91	1,351.15	1,321.94	29.21	46.250	
3,500.00	3,368.34	3,450.20	3,408.58	16.76	13.81	-103.47	1,155.19	-723.55	1,357.03	1,326.74	30.28	44.813	
3,600.00	3,458.61	3,529.43	3,486.50	17.54	14.17	-104.30	1,166.33	-714.54	1,364.72	1,333.36	31.35	43.529	
3,700.00	3,548.89	3,620.82	3,576.22	18.32	14.60	-105.21	1,180.54	-704.47	1,373.81	1,341.33	32.48	42.293	
3,800.00	3,639.16	3,715.89	3,669.55	19.10	15.05	-106.15	1,195.22	-693.91	1,383.20	1,349.56	33.63	41.127	
3,900.00	3,729.43	3,841.75	3,792.80	19.89	15.65	-107.31	1,215.83	-678.88	1,392.76	1,357.82	34.94	39.862	
4,000.00	3,819.70	3,911.30	3,860.95	20.69	15.98	-107.96	1,226.75	-670.34	1,401.99	1,366.03	35.96	38.992	
4,100.00	3,909.98	3,990.00	3,938.33	21.48	16.35	-108.72	1,238.77	-662.59	1,413.49	1,376.50	36.99	38.208	
4,200.00	4,000.25	4,094.24	4,040.94	22.28	16.83	-109.75	1,254.02	-652.32	1,425.21	1,387.06	38.15	37.358	
4,300.00	4,090.52	4,185.52	4,130.62	23.08	17.26	-110.60	1,268.33	-643.13	1,437.51	1,398.27	39.24	36.632	
4,400.00	4,180.79	4,273.82	4,217.24	23.88	17.67	-111.37	1,282.98	-634.24	1,450.48	1,410.17	40.32	35.979	
4,500.00	4,271.06	4,383.65	4,325.20	24.69	18.18	-112.36	1,300.34	-623.95	1,464.23	1,422.74	41.49	35.290	
4,600.00	4,361.34	4,503.18	4,442.21	25.49	18.76	-113.35	1,320.36	-610.11	1,476.48	1,433.75	42.73	34.551	
4,700.00	4,451.61	4,602.30	4,538.83	26.30	19.26	-114.08	1,338.31	-597.17	1,488.06	1,444.18	43.88	33.909	
4,800.00	4,541.88	4,664.49	4,599.63	27.11	19.56	-114.56	1,349.24	-590.05	1,501.25	1,456.44	44.80	33.506	
4,900.00	4,632.15	4,777.22	4,710.08	27.92	20.11	-115.44	1,368.63	-578.44	1,515.70	1,469.71	45.99	32.955	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,903.28	4,833.58	28.74	20.72	-116.44	1,388.67	-563.11	1,528.21	1,480.98	47.23	32.356	
5,100.00	4,812.70	4,987.63	4,916.10	29.55	21.13	-117.08	1,402.44	-552.38	1,540.68	1,492.44	48.25	31.934	
5,200.00	4,902.97	5,061.95	4,989.00	30.37	21.48	-117.65	1,414.33	-544.05	1,554.75	1,505.56	49.18	31.611	
5,300.00	4,993.24	5,151.93	5,077.65	31.18	21.89	-118.41	1,427.14	-535.57	1,570.35	1,520.19	50.17	31.301	
5,400.00	5,083.51	5,271.00	5,195.05	32.00	22.43	-119.43	1,442.63	-523.15	1,585.05	1,533.77	51.28	30.910	
5,500.00	5,173.79	5,382.36	5,304.80	32.82	22.93	-120.38	1,456.80	-510.73	1,599.41	1,547.07	52.34	30.561	
5,600.00	5,264.06	5,495.48	5,415.78	33.63	23.47	-121.23	1,473.17	-496.12	1,612.67	1,559.24	53.42	30.186	
5,700.00	5,354.33	5,567.00	5,486.01	34.45	23.80	-121.77	1,483.50	-487.48	1,626.98	1,572.68	54.30	29.963	
5,800.00	5,444.60	5,659.20	5,576.70	35.27	24.23	-122.47	1,496.54	-477.26	1,642.51	1,587.25	55.26	29.725	
5,900.00	5,534.88	5,766.37	5,682.09	36.09	24.73	-123.27	1,511.55	-464.86	1,657.83	1,601.55	56.28	29.455	
6,000.00	5,625.15	5,868.87	5,782.91	36.91	25.21	-124.03	1,525.50	-452.67	1,673.06	1,615.79	57.27	29.213	
6,100.00	5,715.42	5,953.20	5,865.72	37.74	25.60	-124.62	1,537.57	-442.29	1,688.29	1,630.12	58.17	29.025	
6,200.00	5,805.69	6,012.00	5,923.72	38.56	25.87	-125.06	1,545.15	-436.29	1,705.57	1,646.68	58.89	28.962	
6,300.00	5,895.96	6,114.25	6,024.71	39.38	26.31	-125.83	1,558.07	-426.83	1,724.03	1,664.20	59.83	28.816	
6,400.00	5,986.24	6,216.31	6,125.37	40.20	26.77	-126.56	1,571.68	-416.94	1,742.38	1,681.61	60.78	28.669	
6,500.00	6,076.51	6,322.33	6,229.92	41.03	27.25	-127.30	1,585.66	-406.22	1,760.58	1,698.84	61.73	28.519	
6,600.00	6,166.78	6,439.24	6,345.12	41.85	27.78	-128.10	1,600.85	-393.43	1,778.21	1,715.47	62.74	28.343	
6,700.00	6,257.05	6,558.38	6,462.28	42.67	28.33	-128.89	1,616.70	-378.70	1,794.66	1,730.91	63.75	28.151	
6,800.00	6,347.33	6,632.10	6,534.86	43.50	28.67	-129.38	1,625.98	-369.71	1,811.50	1,746.98	64.52	28.076	
6,900.00	6,437.60	6,718.58	6,620.23	44.32	29.05	-129.99	1,635.77	-359.98	1,829.47	1,764.15	65.32	28.008	
7,000.00	6,527.87	6,797.45	6,698.21	45.15	29.39	-130.55	1,644.17	-351.66	1,848.35	1,782.29	66.06	27.981	
7,100.00	6,618.14	7,171.00	7,062.16	45.98	30.67	-134.74	1,627.49	-285.14	1,858.36	1,791.72	66.64	27.885	
7,200.00	6,708.41	7,214.11	7,102.25	46.80	30.74	-135.49	1,615.51	-274.81	1,865.76	1,798.67	67.08	27.812	
7,300.00	6,798.69	7,261.00	7,145.58	47.63	30.81	-136.37	1,599.91	-266.06	1,878.01	1,810.60	67.41	27.861	
7,400.00	6,888.96	7,261.00	7,145.58	48.45	30.81	-136.37	1,599.91	-266.06	1,893.64	1,825.80	67.84	27.912	
7,500.00	6,979.23	7,289.66	7,171.81	49.28	30.83	-136.94	1,589.13	-261.89	1,913.76	1,845.75	68.02	28.137	
7,600.00	7,069.50	7,314.88	7,194.67	50.11	30.84	-137.45	1,578.94	-258.83	1,937.86	1,869.76	68.10	28.457	
7,692.09	7,152.63	7,350.00	7,226.12	50.87	30.86	-138.18	1,563.67	-255.55	1,963.63	1,895.58	68.05	28.854	
7,700.00	7,159.79	7,350.00	7,226.12	50.93	30.86	-139.64	1,563.67	-255.55	1,965.95	1,897.90	68.05	28.888	
7,750.00	7,205.70	7,350.00	7,226.12	51.32	30.86	-150.29	1,563.67	-255.55	1,981.14	1,913.10	68.04	29.116	
7,800.00	7,252.52	7,376.34	7,249.34	51.66	30.86	-164.16	1,551.39	-253.56	1,996.89	1,928.95	67.94	29.392	
7,850.00	7,299.89	7,402.15	7,271.71	51.96	30.85	179.52	1,538.66	-251.69	2,012.79	1,944.97	67.82	29.678	
7,900.00	7,347.44	7,439.00	7,302.97	52.20	30.85	161.98	1,519.31	-249.17	2,028.72	1,961.06	67.65	29.986	
7,950.00	7,394.83	7,454.58	7,315.93	52.39	30.84	145.84	1,510.72	-248.15	2,044.36	1,976.83	67.53	30.274	
8,000.00	7,441.68	7,480.74	7,337.29	52.53	30.82	132.10	1,495.71	-246.52	2,059.69	1,992.33	67.36	30.577	
8,050.00	7,487.65	7,507.15	7,358.33	52.62	30.80	121.17	1,479.83	-244.97	2,074.53	2,007.34	67.19	30.877	
8,100.00	7,532.37	7,528.00	7,374.56	52.67	30.79	112.66	1,466.79	-243.82	2,088.73	2,021.71	67.03	31.163	
8,150.00	7,575.52	7,555.74	7,395.62	52.67	30.76	105.93	1,448.80	-242.45	2,102.21	2,035.37	66.84	31.450	
8,200.00	7,616.76	7,578.74	7,412.63	52.63	30.73	100.61	1,433.34	-241.48	2,114.91	2,048.23	66.68	31.717	
8,250.00	7,655.77	7,617.00	7,439.95	52.55	30.69	96.31	1,406.59	-240.25	2,126.83	2,060.36	66.47	31.998	
8,300.00	7,692.27	7,617.00	7,439.95	52.44	30.69	92.88	1,406.59	-240.25	2,137.56	2,071.15	66.41	32.188	
8,350.00	7,725.97	7,617.00	7,439.95	52.29	30.69	90.01	1,406.59	-240.25	2,147.76	2,081.40	66.37	32.363	
8,400.00	7,756.62	7,657.84	7,467.67	52.12	30.62	87.76	1,376.61	-239.69	2,156.27	2,090.08	66.19	32.577	
8,450.00	7,783.98	7,675.16	7,478.94	51.92	30.59	85.90	1,363.46	-239.77	2,164.10	2,097.97	66.13	32.727	
8,500.00	7,807.85	7,707.00	7,498.87	51.70	30.54	84.52	1,338.64	-240.42	2,170.97	2,104.95	66.02	32.883	
8,550.00	7,828.05	7,707.00	7,498.87	51.45	30.54	83.28	1,338.64	-240.42	2,176.45	2,110.37	66.08	32.935	
8,600.00	7,844.41	7,707.00	7,498.87	51.20	30.54	82.29	1,338.64	-240.42	2,181.17	2,114.99	66.18	32.959	
8,650.00	7,856.82	7,748.54	7,523.23	50.93	30.45	81.98	1,305.05	-242.06	2,184.13	2,118.02	66.12	33.035	
8,700.00	7,865.18	7,767.58	7,533.75	50.65	30.41	81.74	1,289.21	-243.08	2,186.18	2,120.00	66.18	33.034	
8,750.00	7,869.43	7,796.00	7,548.66	50.36	30.36	81.88	1,265.08	-244.88	2,187.10	2,120.88	66.22	33.027	
8,776.25	7,870.00	7,796.31	7,548.81	50.21	30.36	81.87	1,264.81	-244.91	2,187.04	2,120.71	66.33	32.971	
8,800.00	7,870.00	7,824.69	7,562.81	50.08	30.30	82.24	1,240.20	-246.78	2,186.89	2,120.60	66.28	32.992	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,960.24	7,617.62	49.53	30.01	83.69	1,116.56	-252.59	2,185.81	2,119.88	65.93	33.151	
9,000.00	7,870.00	8,097.76	7,652.17	49.01	29.73	84.59	983.56	-252.71	2,182.78	2,117.20	65.58	33.283	
9,100.00	7,870.00	8,182.63	7,665.46	48.52	29.57	84.93	899.76	-251.85	2,179.96	2,114.34	65.61	33.224	
9,200.00	7,870.00	8,271.74	7,673.76	48.06	29.45	85.15	811.06	-250.74	2,177.58	2,111.87	65.71	33.140	
9,300.00	7,870.00	8,375.01	7,678.10	47.63	29.48	85.26	707.89	-249.72	2,175.92	2,110.04	65.88	33.030	
9,400.00	7,870.00	8,525.45	7,680.60	47.22	30.23	85.31	557.57	-244.74	2,171.92	2,105.72	66.20	32.811	
9,500.00	7,870.00	8,577.76	7,681.29	46.83	30.58	85.32	505.28	-243.19	2,168.53	2,101.79	66.73	32.496	
9,600.00	7,870.00	8,659.87	7,681.99	46.48	31.17	85.34	423.19	-242.23	2,166.89	2,099.51	67.38	32.157	
9,687.28	7,870.00	8,715.30	7,682.33	46.18	31.59	85.35	367.76	-241.85	2,166.06	2,098.07	68.00	31.856	
9,700.00	7,870.00	8,721.41	7,682.36	46.14	31.64	85.35	361.65	-241.88	2,166.08	2,098.00	68.08	31.817	
9,800.00	7,870.00	8,775.00	7,682.58	45.83	32.06	85.36	308.07	-242.96	2,167.60	2,098.81	68.80	31.508	
9,900.00	7,870.00	8,851.02	7,683.21	45.54	32.69	85.38	232.10	-245.76	2,170.80	2,101.11	69.69	31.149	
10,000.00	7,870.00	8,944.14	7,684.96	45.27	33.51	85.43	139.09	-249.71	2,174.53	2,103.73	70.80	30.713	
10,100.00	7,870.00	9,037.99	7,687.52	45.03	34.39	85.51	45.37	-253.99	2,178.54	2,106.48	72.05	30.235	
10,200.00	7,870.00	9,199.74	7,690.81	44.82	36.03	85.60	-116.27	-258.61	2,180.65	2,106.53	74.12	29.422	
10,300.00	7,870.00	9,318.29	7,691.18	44.66	37.32	85.61	-234.80	-260.12	2,181.56	2,105.60	75.96	28.720	
10,400.00	7,870.00	9,423.32	7,689.81	44.56	38.52	85.58	-339.82	-260.79	2,181.97	2,104.17	77.79	28.048	
10,500.00	7,870.00	9,532.99	7,688.18	44.58	39.83	85.54	-449.48	-261.02	2,181.95	2,102.14	79.81	27.339	
10,600.00	7,870.00	9,631.22	7,686.03	44.82	41.05	85.48	-547.69	-260.94	2,181.70	2,099.92	81.78	26.679	
10,700.00	7,870.00	9,743.63	7,684.04	45.36	42.48	85.43	-660.08	-260.87	2,181.46	2,097.40	84.06	25.952	
10,800.00	7,870.00	9,864.43	7,684.12	46.15	44.06	85.42	-780.87	-259.81	2,180.23	2,093.61	86.61	25.172	
10,900.00	7,870.00	9,976.52	7,683.83	47.09	45.58	85.41	-892.95	-258.07	2,178.37	2,089.24	89.13	24.440	
11,000.00	7,870.00	10,099.84	7,682.29	48.13	47.29	85.37	-1,016.22	-254.99	2,175.65	2,083.72	91.94	23.665	
11,100.00	7,870.00	10,172.11	7,681.11	49.22	48.31	85.33	-1,088.46	-253.12	2,172.90	2,079.02	93.89	23.144	
11,200.00	7,870.00	10,265.47	7,680.52	50.37	49.64	85.31	-1,181.81	-251.91	2,171.30	2,075.02	96.28	22.552	
11,300.00	7,870.00	10,340.43	7,680.32	51.55	50.71	85.30	-1,256.76	-251.12	2,170.00	2,071.65	98.36	22.062	
11,333.89	7,870.00	10,362.50	7,680.56	51.95	51.03	85.31	-1,278.82	-251.16	2,169.91	2,070.91	99.00	21.917	
11,400.00	7,870.00	10,424.64	7,681.71	52.76	51.94	85.34	-1,340.95	-251.63	2,170.08	2,069.42	100.67	21.557	
11,500.00	7,870.00	10,526.68	7,683.33	54.00	53.43	85.38	-1,442.98	-252.16	2,170.13	2,066.74	103.39	20.989	
11,600.00	7,870.00	10,635.99	7,684.53	55.27	55.05	85.42	-1,552.28	-252.59	2,170.11	2,063.78	106.33	20.410	
11,700.00	7,870.00	10,737.97	7,684.40	56.56	56.59	85.41	-1,654.26	-252.51	2,169.70	2,060.56	109.14	19.881	
11,739.60	7,870.00	10,768.24	7,684.27	57.08	57.04	85.41	-1,684.53	-252.54	2,169.62	2,059.58	110.04	19.717	
11,800.00	7,870.00	10,815.44	7,684.66	57.88	57.76	85.42	-1,731.72	-252.87	2,169.80	2,058.36	111.44	19.471	
11,900.00	7,870.00	10,957.68	7,686.63	59.21	59.94	85.47	-1,873.95	-253.09	2,169.54	2,054.26	115.28	18.820	
12,000.00	7,870.00	11,103.73	7,687.27	60.57	62.21	85.48	-2,019.96	-250.17	2,167.18	2,047.94	119.24	18.175	
12,100.00	7,870.00	11,143.16	7,687.53	61.94	62.83	85.48	-2,059.39	-249.72	2,165.33	2,044.56	120.77	17.929	
12,127.80	7,870.00	11,156.52	7,687.67	62.33	63.03	85.49	-2,072.75	-249.73	2,165.24	2,043.99	121.25	17.858	
12,200.00	7,870.00	11,199.82	7,688.23	63.33	63.71	85.50	-2,116.05	-250.32	2,165.82	2,043.15	122.67	17.655	
12,300.00	7,870.00	11,298.17	7,689.13	64.74	65.25	85.53	-2,214.37	-252.25	2,167.37	2,041.76	125.61	17.255	
12,400.00	7,870.00	11,441.45	7,694.70	66.16	67.51	85.68	-2,357.52	-253.84	2,167.86	2,038.12	129.74	16.709	
12,500.00	7,870.00	11,566.70	7,698.36	67.59	69.52	85.77	-2,482.71	-253.01	2,166.63	2,033.18	133.45	16.236	
12,600.00	7,870.00	11,676.64	7,699.33	69.04	71.29	85.80	-2,592.63	-251.21	2,164.59	2,027.82	136.77	15.826	
12,700.00	7,870.00	11,752.61	7,698.79	70.51	72.52	85.78	-2,668.59	-249.93	2,162.70	2,023.44	139.26	15.530	
12,758.41	7,870.00	11,787.39	7,698.36	71.37	73.08	85.77	-2,703.36	-249.83	2,162.38	2,021.92	140.46	15.395	
12,800.00	7,870.00	11,813.51	7,697.99	71.98	73.50	85.76	-2,729.48	-249.99	2,162.54	2,021.20	141.34	15.300	
12,900.00	7,870.00	11,883.01	7,697.16	73.47	74.62	85.74	-2,798.97	-251.16	2,163.96	2,020.34	143.62	15.067	
13,000.00	7,870.00	11,973.66	7,695.76	74.96	76.08	85.70	-2,889.58	-253.56	2,166.37	2,019.90	146.47	14.790	
13,100.00	7,870.00	12,051.90	7,694.25	76.47	77.34	85.67	-2,967.76	-256.07	2,169.39	2,020.41	148.98	14.561	
13,200.00	7,870.00	12,175.42	7,694.87	77.99	79.34	85.69	-3,091.19	-260.58	2,172.71	2,019.91	152.80	14.219	
13,300.00	7,870.00	12,299.94	7,696.15	79.51	81.38	85.73	-3,215.67	-263.15	2,174.29	2,017.62	156.67	13.878	
13,400.00	7,870.00	12,382.19	7,695.71	81.05	82.72	85.72	-3,297.90	-264.71	2,175.91	2,016.55	159.36	13.654	
13,500.00	7,870.00	12,470.75	7,695.83	82.59	84.17	85.73	-3,386.42	-267.40	2,178.57	2,016.33	162.23	13.429	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,600.00	7,870.00	12,638.61	7,696.47	84.14	86.95	85.75	-3,554.23	-270.05	2,179.83	2,012.47	167.36	13.025	
13,700.00	7,870.00	12,756.38	7,698.43	85.70	88.91	85.80	-3,671.99	-269.63	2,179.02	2,007.92	171.10	12.735	
13,800.00	7,870.00	12,844.48	7,699.70	87.26	90.38	85.83	-3,760.07	-269.00	2,177.88	2,003.83	174.05	12.513	
13,900.00	7,870.00	12,932.83	7,703.28	88.83	91.86	85.93	-3,848.34	-269.26	2,177.53	2,000.51	177.02	12.301	
14,000.00	7,870.00	13,045.62	7,708.27	90.41	93.75	86.06	-3,961.02	-269.63	2,177.22	1,996.52	180.70	12.049	
14,100.00	7,870.00	13,174.84	7,712.80	92.00	95.93	86.17	-4,090.16	-268.33	2,175.59	1,990.76	184.83	11.771	
14,200.00	7,870.00	13,276.95	7,715.42	93.59	97.66	86.24	-4,192.22	-266.69	2,173.48	1,985.27	188.21	11.548	
14,300.00	7,870.00	13,374.83	7,717.03	95.18	99.32	86.28	-4,290.07	-265.03	2,171.35	1,979.86	191.48	11.340	
14,400.00	7,870.00	13,494.71	7,718.97	96.79	101.35	86.32	-4,409.91	-262.81	2,169.11	1,973.76	195.35	11.104	
14,500.00	7,870.00	13,598.88	7,720.35	98.39	103.13	86.35	-4,514.04	-259.86	2,165.85	1,967.05	198.80	10.895	
14,600.00	7,870.00	13,692.30	7,721.36	100.00	104.72	86.38	-4,607.41	-257.39	2,162.81	1,960.83	201.97	10.708	
14,700.00	7,870.00	13,768.05	7,722.18	101.62	106.01	86.40	-4,683.15	-255.91	2,160.46	1,955.79	204.66	10.556	
14,800.00	7,870.00	13,841.63	7,723.07	103.24	107.26	86.42	-4,756.72	-255.36	2,159.29	1,952.02	207.27	10.418	
14,845.14	7,870.00	13,875.00	7,723.49	103.98	107.83	86.43	-4,790.09	-255.41	2,159.17	1,950.73	208.44	10.358	
14,900.00	7,870.00	13,916.91	7,724.03	104.87	108.54	86.44	-4,831.99	-255.72	2,159.34	1,949.44	209.90	10.287	
15,000.00	7,870.00	14,046.40	7,725.09	106.50	110.74	86.47	-4,961.47	-256.86	2,160.00	1,945.88	214.12	10.088	
15,100.00	7,870.00	14,207.07	7,722.10	108.13	113.49	86.39	-5,122.06	-253.64	2,157.75	1,938.63	219.12	9.847	
15,200.00	7,870.00	14,292.63	7,719.19	109.77	114.96	86.30	-5,207.53	-250.73	2,154.26	1,932.19	222.08	9.701	
15,300.00	7,870.00	14,369.58	7,716.63	111.41	116.28	86.23	-5,284.41	-249.03	2,151.93	1,927.14	224.79	9.573	
15,400.00	7,870.00	14,446.84	7,714.10	113.05	117.61	86.16	-5,361.63	-248.09	2,150.60	1,923.11	227.49	9.454	
15,468.79	7,870.00	14,499.00	7,712.40	114.18	118.50	86.12	-5,413.76	-247.96	2,150.34	1,921.04	229.31	9.378	
15,500.00	7,870.00	14,521.35	7,711.66	114.70	118.88	86.10	-5,436.10	-248.03	2,150.41	1,920.32	230.09	9.346	
15,600.00	7,870.00	14,594.83	7,709.23	116.35	120.14	86.03	-5,509.53	-248.89	2,151.45	1,918.83	232.62	9.249	
15,700.00	7,870.00	14,674.67	7,706.70	118.00	121.50	85.97	-5,589.31	-250.67	2,153.57	1,918.25	235.32	9.152	
15,800.00	7,870.00	14,750.28	7,704.56	119.66	122.78	85.92	-5,664.85	-253.16	2,156.71	1,918.84	237.87	9.067	
15,900.00	7,870.00	14,822.31	7,702.82	121.32	124.00	85.88	-5,736.79	-256.41	2,161.06	1,920.79	240.27	8.994	
16,000.00	7,870.00	14,899.72	7,701.23	122.98	125.30	85.84	-5,814.04	-260.91	2,166.65	1,923.82	242.83	8.923	
16,100.00	7,870.00	14,983.82	7,700.28	124.65	126.72	85.83	-5,897.95	-266.54	2,173.07	1,927.46	245.61	8.848	
16,200.00	7,870.00	15,069.44	7,700.31	126.32	128.16	85.84	-5,983.34	-272.92	2,180.15	1,931.70	248.46	8.775	
16,300.00	7,870.00	15,168.36	7,701.62	127.99	129.82	85.89	-6,081.92	-280.90	2,187.77	1,935.96	251.81	8.688	
16,400.00	7,870.00	15,298.89	7,704.81	129.66	132.02	85.99	-6,212.06	-290.48	2,194.60	1,938.26	256.34	8.561	
16,500.00	7,870.00	15,448.09	7,710.01	131.33	134.55	86.14	-6,360.93	-298.78	2,199.60	1,938.09	261.51	8.411	
16,600.00	7,870.00	15,649.58	7,720.12	133.01	138.01	86.41	-6,562.10	-303.48	2,201.42	1,933.22	268.21	8.208	
16,700.00	7,870.00	16,700.00	7,727.25	134.69	156.31	86.59	-6,731.47	-299.96	2,198.54	1,909.61	288.93	7.609	
16,800.00	7,870.00	15,960.66	7,732.18	136.37	143.43	86.70	-6,872.71	-292.86	2,192.70	1,914.60	278.10	7.885	
16,900.00	7,870.00	16,045.94	7,734.09	138.06	144.92	86.75	-6,957.85	-288.52	2,187.16	1,905.95	281.21	7.778	
17,000.00	7,870.00	16,127.16	7,735.45	139.74	146.34	86.78	-7,038.99	-285.02	2,182.43	1,898.22	284.21	7.679	
17,100.00	7,870.00	16,208.32	7,736.73	141.43	147.76	86.81	-7,120.09	-282.20	2,178.53	1,891.35	287.19	7.586	
17,200.00	7,870.00	16,287.63	7,737.97	143.12	149.14	86.84	-7,199.36	-280.18	2,175.56	1,885.47	290.09	7.500	
17,300.00	7,870.00	16,370.00	7,739.30	144.81	150.58	86.87	-7,281.71	-278.81	2,173.47	1,880.42	293.06	7.417	
17,400.00	7,870.00	16,448.89	7,740.64	146.50	151.95	86.90	-7,360.59	-278.21	2,172.28	1,876.38	295.90	7.341	
17,500.00	7,870.00	16,557.70	7,742.60	148.19	153.84	86.95	-7,469.37	-277.77	2,171.44	1,871.82	299.62	7.247	
17,600.00	7,870.00	16,671.84	7,744.56	149.89	155.82	87.00	-7,583.49	-276.55	2,169.95	1,866.45	303.50	7.150	
17,700.00	7,870.00	16,779.66	7,746.19	151.59	157.70	87.04	-7,691.28	-274.89	2,167.98	1,860.80	307.18	7.058	
17,800.00	7,870.00	16,882.13	7,747.65	153.29	159.49	87.08	-7,793.73	-273.02	2,165.75	1,855.03	310.72	6.970	
17,900.00	7,870.00	16,982.03	7,749.04	154.99	161.23	87.11	-7,893.60	-271.17	2,163.50	1,849.31	314.19	6.886	
18,000.00	7,870.00	17,089.44	7,750.56	156.69	163.11	87.15	-8,000.98	-269.03	2,161.09	1,843.23	317.87	6.799	
18,100.00	7,870.00	17,196.23	7,752.17	158.39	164.97	87.19	-8,107.73	-266.50	2,158.32	1,836.79	321.53	6.713	
18,200.00	7,870.00	17,291.57	7,752.81	160.09	166.64	87.20	-8,203.03	-264.08	2,155.42	1,830.54	324.87	6.635	
18,300.00	7,870.00	17,374.16	7,752.70	161.80	168.08	87.20	-8,285.61	-262.44	2,153.10	1,825.25	327.85	6.567	
18,400.00	7,870.00	17,466.66	7,752.14	163.51	169.70	87.18	-8,378.10	-261.25	2,151.50	1,820.41	331.09	6.498	
18,453.49	7,870.00	17,487.00	7,752.00	164.42	170.05	87.18	-8,398.44	-261.00	2,150.93	1,818.98	331.95	6.480	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,455.45	7,870.00	17,487.00	7,752.00	164.45	170.05	87.18	-8,398.44	-261.00	2,150.93	1,818.98	331.95	6.480	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 140-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.29	786.15	-981.10	1,257.27				
100.00	100.00	90.99	90.99	0.13	0.14	-51.29	786.15	-980.96	1,257.11	1,256.84	0.27	4,641.800	
200.00	200.00	191.32	191.32	0.49	0.39	-51.28	786.11	-980.60	1,256.80	1,255.92	0.88	1,425.046	
300.00	300.00	288.90	288.89	0.85	0.73	-51.29	785.90	-980.56	1,256.63	1,255.05	1.58	794.772	
336.81	336.81	324.81	324.81	0.98	0.86	-51.30	785.78	-980.64	1,256.62	1,254.78	1.84	683.515	
400.00	400.00	383.42	383.42	1.21	1.06	-51.31	785.68	-980.87	1,256.75	1,254.48	2.27	553.871	
500.00	500.00	476.65	476.65	1.57	1.38	-51.31	785.90	-981.44	1,257.38	1,254.43	2.95	425.937	
600.00	600.00	569.87	569.86	1.93	1.71	-51.31	786.59	-982.29	1,258.55	1,254.92	3.63	346.245	
700.00	700.00	668.13	668.09	2.29	2.05	-51.24	788.77	-982.49	1,260.09	1,255.76	4.34	290.668	
800.00	800.00	783.17	782.82	2.64	2.46	-50.88	795.74	-978.46	1,261.20	1,256.10	5.10	247.313	
900.00	900.00	920.61	919.20	3.00	2.96	-50.11	807.99	-966.70	1,260.29	1,254.32	5.96	211.343	
1,000.00	1,000.00	1,018.09	1,015.70	3.36	3.34	-49.49	816.86	-956.22	1,257.93	1,251.23	6.70	187.833	
1,100.00	1,100.00	1,111.20	1,107.79	3.72	3.71	-48.87	826.07	-945.97	1,256.04	1,248.62	7.42	169.174	
1,200.00	1,200.00	1,209.15	1,204.64	4.08	4.10	-48.21	836.10	-935.37	1,254.70	1,246.52	8.18	153.399	
1,300.00	1,300.00	1,331.39	1,325.20	4.44	4.62	-47.29	849.36	-920.13	1,252.77	1,243.72	9.05	138.466	
1,400.00	1,399.98	1,432.53	1,424.28	4.79	5.06	-89.46	861.72	-904.06	1,249.46	1,239.61	9.85	126.846	
1,500.00	1,499.84	1,513.75	1,503.67	5.15	5.43	-88.91	872.84	-890.98	1,247.21	1,236.63	10.58	117.897	
1,575.47	1,575.04	1,571.47	1,560.05	5.42	5.70	-88.57	881.46	-882.14	1,246.66	1,235.54	11.12	112.137	
1,600.00	1,599.45	1,589.65	1,577.81	5.51	5.79	-88.47	884.32	-879.47	1,246.72	1,235.43	11.29	110.426	
1,700.00	1,698.70	1,680.61	1,666.66	5.87	6.21	-88.06	899.15	-866.88	1,247.95	1,235.87	12.08	103.311	
1,800.00	1,797.47	1,804.55	1,788.00	6.24	6.79	-87.79	917.66	-849.75	1,248.20	1,235.16	13.04	95.755	
1,900.00	1,895.62	1,931.14	1,912.19	6.63	7.38	-87.82	933.30	-830.88	1,245.58	1,231.57	14.01	88.922	
2,000.00	1,993.06	2,013.63	1,993.35	7.04	7.75	-88.05	942.68	-819.48	1,243.05	1,228.25	14.80	84.017	
2,100.00	2,089.64	2,095.39	2,073.87	7.48	8.12	-88.40	952.61	-809.28	1,241.90	1,226.30	15.60	79.614	
2,147.69	2,135.37	2,136.79	2,114.63	7.70	8.31	-88.62	957.90	-804.39	1,241.79	1,225.78	16.01	77.582	
2,200.00	2,185.27	2,182.15	2,159.30	7.94	8.52	-88.88	963.86	-799.18	1,241.93	1,225.48	16.45	75.478	
2,300.00	2,279.82	2,273.79	2,249.50	8.45	8.93	-89.52	976.44	-789.09	1,243.00	1,225.63	17.37	71.565	
2,400.00	2,373.17	2,413.57	2,386.74	8.99	9.58	-90.65	995.81	-771.06	1,243.13	1,224.57	18.56	66.985	
2,500.00	2,465.21	2,504.60	2,476.07	9.58	10.00	-91.55	1,007.30	-757.78	1,241.46	1,221.89	19.57	63.452	
2,541.73	2,503.21	2,537.77	2,508.67	9.84	10.16	-91.92	1,011.50	-753.36	1,241.29	1,221.31	19.98	62.131	
2,574.08	2,532.50	2,563.34	2,533.83	10.04	10.28	-92.22	1,014.76	-750.12	1,241.39	1,221.09	20.30	61.156	
2,600.00	2,555.89	2,583.77	2,553.93	10.21	10.37	-92.47	1,017.37	-747.63	1,241.63	1,221.07	20.56	60.393	
2,700.00	2,646.16	2,697.88	2,666.19	10.88	10.90	-93.84	1,031.91	-733.29	1,242.61	1,220.88	21.74	57.168	
2,800.00	2,736.44	2,835.71	2,801.10	11.57	11.56	-95.36	1,050.17	-711.79	1,242.30	1,219.25	23.05	53.898	
2,900.00	2,826.71	2,937.62	2,900.98	12.27	12.05	-96.56	1,060.69	-694.50	1,239.43	1,215.23	24.21	51.200	
3,000.00	2,916.98	3,038.10	2,999.20	13.00	12.54	-97.67	1,072.35	-676.85	1,237.38	1,212.00	25.38	48.754	
3,090.12	2,998.33	3,104.55	3,064.21	13.66	12.86	-98.42	1,080.14	-665.53	1,236.38	1,210.04	26.34	46.941	CC
3,100.00	3,007.25	3,111.59	3,071.13	13.73	12.89	-98.50	1,080.89	-664.48	1,236.39	1,209.95	26.44	46.758	ES
3,200.00	3,097.52	3,185.22	3,143.65	14.48	13.23	-99.43	1,088.66	-654.40	1,237.85	1,210.36	27.49	45.031	
3,300.00	3,187.80	3,271.85	3,228.78	15.23	13.64	-100.44	1,099.81	-642.81	1,241.33	1,212.73	28.59	43.411	
3,400.00	3,278.07	3,381.73	3,336.36	15.99	14.17	-101.64	1,115.47	-626.93	1,245.14	1,215.32	29.82	41.754	
3,500.00	3,368.34	3,471.95	3,424.63	16.76	14.61	-102.60	1,128.26	-613.31	1,248.83	1,217.87	30.96	40.336	
3,600.00	3,458.61	3,566.65	3,517.35	17.54	15.07	-103.61	1,141.81	-599.62	1,253.53	1,221.42	32.11	39.034	
3,700.00	3,548.89	3,651.43	3,600.52	18.32	15.47	-104.55	1,153.48	-588.05	1,259.13	1,225.93	33.21	37.920	
3,800.00	3,639.16	3,771.14	3,717.98	19.10	16.04	-105.87	1,169.50	-571.42	1,264.79	1,230.34	34.45	36.715	
3,900.00	3,729.43	3,852.25	3,797.42	19.89	16.44	-106.72	1,180.91	-559.69	1,270.70	1,235.18	35.52	35.777	
4,000.00	3,819.70	3,942.05	3,885.60	20.69	16.86	-107.70	1,193.05	-547.79	1,277.89	1,241.29	36.60	34.912	
4,100.00	3,909.98	4,033.14	3,975.35	21.48	17.28	-108.75	1,204.06	-536.82	1,286.06	1,248.39	37.67	34.143	
4,200.00	4,000.25	4,153.80	4,094.18	22.28	17.83	-110.13	1,218.51	-521.65	1,294.29	1,255.44	38.85	33.315	
4,300.00	4,090.52	4,255.69	4,194.01	23.08	18.32	-111.17	1,232.59	-506.95	1,301.93	1,261.95	39.98	32.568	
4,400.00	4,180.79	4,364.57	4,300.31	23.88	18.87	-112.21	1,248.12	-489.27	1,308.38	1,267.24	41.14	31.806	
4,500.00	4,271.06	4,452.24	4,386.09	24.69	19.30	-113.07	1,260.28	-475.89	1,316.00	1,273.82	42.18	31.196	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,600.00	4,361.34	4,556.14	4,487.75	25.49	19.81	-114.08	1,274.62	-459.85	1,323.85	1,280.56	43.29	30.580	
4,700.00	4,451.61	4,640.70	4,570.45	26.30	20.23	-114.88	1,286.42	-446.73	1,332.07	1,287.77	44.30	30.068	
4,800.00	4,541.88	4,729.69	4,657.77	27.11	20.65	-115.76	1,298.18	-434.35	1,341.90	1,296.59	45.30	29.619	
4,900.00	4,632.15	4,837.56	4,763.57	27.92	21.17	-116.81	1,312.50	-418.95	1,351.81	1,305.43	46.38	29.144	
5,000.00	4,722.43	4,935.05	4,858.86	28.74	21.66	-117.68	1,326.77	-404.10	1,361.53	1,314.10	47.43	28.708	
5,100.00	4,812.70	5,043.72	4,964.88	29.55	22.21	-118.60	1,343.49	-387.05	1,371.29	1,322.76	48.53	28.258	
5,200.00	4,902.97	5,103.75	5,023.66	30.37	22.50	-119.13	1,352.10	-378.45	1,382.34	1,332.98	49.36	28.004	
5,300.00	4,993.24	5,191.55	5,110.12	31.18	22.90	-119.99	1,363.04	-367.82	1,395.50	1,345.22	50.28	27.755	
5,400.00	5,083.51	5,285.32	5,202.56	32.00	23.33	-120.91	1,374.13	-356.62	1,409.11	1,357.91	51.20	27.521	
5,500.00	5,173.79	5,445.45	5,359.98	32.82	24.08	-122.42	1,393.22	-334.48	1,421.50	1,369.09	52.41	27.120	
5,600.00	5,264.06	5,547.97	5,459.80	33.63	24.61	-123.23	1,408.22	-316.55	1,430.93	1,377.50	53.42	26.784	
5,700.00	5,354.33	5,644.01	5,553.28	34.45	25.10	-123.96	1,422.80	-300.14	1,441.11	1,386.71	54.40	26.489	
5,800.00	5,444.60	5,730.69	5,638.13	35.27	25.53	-124.71	1,433.36	-285.90	1,451.82	1,396.54	55.29	26.261	
5,900.00	5,534.88	5,825.62	5,731.27	36.09	25.98	-125.57	1,444.02	-270.96	1,463.42	1,407.25	56.17	26.055	
6,000.00	5,625.15	5,930.16	5,833.47	36.91	26.50	-126.41	1,457.95	-254.04	1,475.11	1,418.00	57.11	25.827	
6,100.00	5,715.42	5,981.51	5,883.65	37.74	26.75	-126.79	1,465.68	-246.35	1,488.37	1,430.54	57.82	25.740	
6,200.00	5,805.69	6,053.22	5,954.19	38.56	27.09	-127.36	1,475.24	-237.71	1,504.51	1,445.93	58.57	25.685	
6,300.00	5,895.96	6,184.53	6,083.57	39.38	27.69	-128.47	1,490.55	-221.33	1,520.66	1,461.07	59.59	25.518	
6,400.00	5,986.24	6,298.24	6,195.00	40.20	28.24	-129.34	1,505.51	-204.44	1,534.70	1,474.16	60.54	25.349	
6,500.00	6,076.51	6,371.00	6,266.40	41.03	28.59	-129.89	1,514.98	-194.07	1,549.63	1,488.34	61.29	25.284	
6,600.00	6,166.78	6,471.57	6,365.23	41.85	29.06	-130.65	1,527.74	-180.50	1,565.57	1,503.42	62.15	25.189	
6,700.00	6,257.05	6,601.56	6,492.72	42.67	29.69	-131.62	1,544.03	-161.08	1,580.30	1,517.15	63.14	25.028	
6,800.00	6,347.33	6,686.88	6,576.26	43.50	30.11	-132.24	1,554.81	-147.53	1,594.43	1,530.50	63.93	24.941	
6,900.00	6,437.60	6,768.86	6,656.44	44.32	30.51	-132.75	1,567.11	-135.73	1,610.14	1,545.42	64.72	24.878	
7,000.00	6,527.87	6,879.35	6,764.54	45.15	31.06	-133.44	1,583.49	-119.77	1,626.05	1,560.40	65.65	24.767	
7,100.00	6,618.14	7,100.00	6,917.23	45.98	32.09	-134.64	1,599.27	-94.80	1,641.23	1,574.37	66.87	24.545	
7,200.00	6,708.41	7,220.24	7,096.87	46.80	32.56	-136.88	1,592.98	-52.14	1,648.67	1,581.64	67.03	24.596	
7,300.00	6,798.69	7,263.00	7,137.67	47.63	32.71	-137.59	1,585.42	-41.84	1,657.97	1,590.52	67.45	24.580	
7,400.00	6,888.96	7,303.56	7,176.39	48.45	32.81	-138.29	1,577.12	-33.13	1,671.07	1,603.30	67.76	24.660	
7,500.00	6,979.23	7,352.00	7,223.08	49.28	32.94	-139.12	1,567.13	-24.96	1,688.74	1,620.75	67.98	24.841	
7,600.00	7,069.50	7,390.28	7,260.08	50.11	33.02	-139.77	1,559.01	-19.42	1,709.77	1,641.63	68.14	25.092	
7,692.09	7,152.63	7,470.47	7,337.22	50.87	33.20	-141.16	1,540.61	-7.55	1,730.86	1,662.65	68.21	25.374	
7,700.00	7,159.79	7,477.16	7,343.62	50.93	33.21	-142.68	1,538.93	-6.54	1,732.72	1,664.50	68.22	25.400	
7,750.00	7,205.70	7,519.93	7,384.29	51.32	33.30	-153.64	1,527.47	0.04	1,744.38	1,676.15	68.24	25.564	
7,800.00	7,252.52	7,573.76	7,434.77	51.66	33.40	-167.32	1,510.96	8.75	1,755.67	1,687.45	68.22	25.735	
7,850.00	7,299.89	7,645.89	7,500.39	51.96	33.51	176.38	1,484.06	21.79	1,766.15	1,698.03	68.12	25.928	
7,900.00	7,347.44	7,745.25	7,586.17	52.20	33.66	158.75	1,439.08	43.69	1,774.58	1,706.75	67.83	26.161	
7,950.00	7,394.83	7,950.00	7,631.90	52.39	33.94	142.94	1,409.89	57.65	1,781.51	1,713.58	67.93	26.227	
8,000.00	7,441.68	7,822.20	7,648.36	52.53	33.74	130.18	1,398.09	62.90	1,787.79	1,720.10	67.69	26.413	
8,050.00	7,487.65	7,841.69	7,663.44	52.62	33.75	120.20	1,386.64	67.55	1,793.74	1,726.06	67.68	26.502	
8,100.00	7,532.37	7,861.35	7,678.32	52.67	33.77	112.56	1,374.60	72.01	1,799.29	1,731.62	67.67	26.589	
8,150.00	7,575.52	7,887.00	7,697.24	52.67	33.78	106.66	1,358.17	77.49	1,804.38	1,736.75	67.62	26.683	
8,200.00	7,616.76	7,887.00	7,697.24	52.63	33.78	102.23	1,358.17	77.49	1,809.02	1,741.33	67.69	26.727	
8,250.00	7,655.77	7,917.44	7,718.84	52.55	33.77	98.63	1,337.56	83.41	1,812.91	1,745.30	67.62	26.812	
8,300.00	7,692.27	7,935.35	7,731.07	52.44	33.77	95.85	1,324.86	86.56	1,816.36	1,748.76	67.60	26.868	
8,350.00	7,725.97	7,976.00	7,757.43	52.29	33.76	93.66	1,294.56	92.79	1,819.61	1,752.13	67.49	26.962	
8,400.00	7,756.62	7,976.00	7,757.43	52.12	33.76	91.96	1,294.56	92.79	1,821.48	1,753.89	67.59	26.950	
8,450.00	7,783.98	7,976.00	7,757.43	51.92	33.76	90.60	1,294.56	92.79	1,823.20	1,755.50	67.70	26.929	
8,500.00	7,807.85	8,008.67	7,777.06	51.70	33.72	89.69	1,268.78	96.91	1,824.01	1,756.33	67.68	26.952	
8,550.00	7,828.05	8,027.49	7,787.67	51.45	33.70	89.02	1,253.37	98.93	1,824.29	1,756.55	67.74	26.931	
8,600.00	7,844.41	8,065.00	7,807.24	51.20	33.67	88.77	1,221.55	102.19	1,824.18	1,756.48	67.71	26.942	
8,650.00	7,856.82	8,065.00	7,807.24	50.93	33.67	88.48	1,221.55	102.19	1,822.95	1,755.01	67.93	26.834	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.00	7,865.18	8,065.00	7,807.24	50.65	33.67	88.34	1,221.55	102.19	1,821.60	1,753.41	68.20	26.712	
8,750.00	7,869.43	8,102.02	7,824.10	50.36	33.59	88.83	1,188.68	104.42	1,819.22	1,750.99	68.22	26.665	
8,776.25	7,870.00	8,111.77	7,828.08	50.21	33.57	89.06	1,179.79	104.84	1,817.88	1,749.56	68.31	26.611	
8,800.00	7,870.00	8,120.67	7,831.53	50.08	33.56	89.16	1,171.59	105.17	1,816.70	1,748.31	68.39	26.563	
8,900.00	7,870.00	8,154.00	7,842.94	49.53	33.50	89.52	1,140.30	105.87	1,813.95	1,745.19	68.75	26.384	
8,939.29	7,870.00	8,180.76	7,850.28	49.32	33.44	89.76	1,114.57	105.93	1,813.70	1,744.92	68.78	26.370	
9,000.00	7,870.00	8,212.08	7,856.66	49.01	33.36	89.96	1,083.92	105.56	1,814.21	1,745.34	68.87	26.343	
9,100.00	7,870.00	8,275.51	7,862.96	48.52	33.22	90.16	1,020.87	103.49	1,817.05	1,748.15	68.90	26.373	
9,200.00	7,870.00	8,358.11	7,865.07	48.06	33.05	90.22	938.39	99.69	1,821.30	1,752.52	68.78	26.479	
9,300.00	7,870.00	8,450.01	7,864.74	47.63	32.91	90.21	846.62	94.95	1,826.12	1,757.42	68.70	26.581	
9,400.00	7,870.00	8,706.90	7,859.57	47.22	33.08	90.05	589.90	94.56	1,824.40	1,756.06	68.34	26.695	
9,500.00	7,870.00	9,500.00	7,855.26	46.83	39.49	89.91	454.25	100.91	1,819.19	1,746.30	72.89	24.957	
9,600.00	7,870.00	8,892.69	7,853.56	46.48	33.91	89.86	404.41	103.03	1,814.86	1,745.34	69.52	26.107	
9,681.75	7,870.00	8,925.00	7,852.52	46.20	34.10	89.83	372.12	103.44	1,813.66	1,743.67	70.00	25.911	
9,700.00	7,870.00	8,925.00	7,852.52	46.14	34.10	89.83	372.12	103.44	1,813.76	1,743.68	70.08	25.883	
9,800.00	7,870.00	8,991.77	7,850.68	45.83	34.51	89.77	305.38	102.44	1,815.17	1,744.38	70.79	25.641	
9,900.00	7,870.00	9,065.13	7,849.14	45.54	35.00	89.72	232.10	99.34	1,818.99	1,747.39	71.60	25.405	
10,000.00	7,870.00	9,168.46	7,846.90	45.27	35.77	89.65	128.91	94.48	1,823.37	1,750.67	72.69	25.083	
10,100.00	7,870.00	9,282.53	7,844.41	45.03	36.72	89.57	14.96	89.86	1,827.09	1,753.05	74.04	24.676	
10,200.00	7,870.00	9,388.64	7,842.10	44.82	37.68	89.50	-91.06	86.17	1,830.25	1,754.75	75.50	24.240	
10,300.00	7,870.00	9,487.20	7,839.95	44.66	38.64	89.44	-189.54	82.93	1,833.22	1,756.20	77.02	23.802	
10,400.00	7,870.00	9,595.62	7,837.51	44.56	39.76	89.36	-297.86	79.12	1,836.44	1,757.65	78.79	23.308	
10,500.00	7,870.00	9,893.58	7,829.81	44.58	43.22	89.12	-595.45	86.52	1,833.60	1,749.86	83.74	21.897	
10,600.00	7,870.00	9,985.93	7,827.81	44.82	44.40	89.05	-687.50	93.74	1,825.49	1,739.76	85.74	21.292	
10,700.00	7,870.00	10,187.30	7,823.42	45.36	47.09	88.90	-887.96	111.96	1,817.34	1,727.52	89.82	20.232	
10,800.00	7,870.00	10,261.00	7,821.54	46.15	48.12	88.83	-961.03	121.34	1,804.43	1,712.72	91.71	19.675	
10,900.00	7,870.00	10,324.94	7,819.73	47.09	49.02	88.77	-1,024.53	128.64	1,793.01	1,699.58	93.43	19.191	
11,000.00	7,870.00	10,373.97	7,818.33	48.13	49.71	88.72	-1,073.37	132.70	1,784.46	1,689.63	94.83	18.817	
11,100.00	7,870.00	10,439.00	7,816.49	49.22	50.62	88.66	-1,138.29	135.88	1,778.95	1,682.39	96.56	18.423	
11,200.00	7,870.00	10,657.00	7,810.74	50.37	53.78	88.46	-1,355.32	154.24	1,770.01	1,668.28	101.73	17.399	
11,300.00	7,870.00	10,720.88	7,808.96	51.55	54.74	88.39	-1,418.83	160.87	1,759.31	1,655.71	103.60	16.982	
11,400.00	7,870.00	10,796.00	7,806.82	52.76	55.86	88.32	-1,493.60	167.80	1,749.92	1,644.20	105.72	16.552	
11,500.00	7,870.00	10,850.05	7,805.28	54.00	56.67	88.26	-1,547.49	171.70	1,742.61	1,635.28	107.33	16.235	
11,600.00	7,870.00	10,885.00	7,804.30	55.27	57.19	88.23	-1,582.39	173.26	1,738.40	1,629.98	108.41	16.035	
11,700.00	7,870.00	10,954.14	7,802.35	56.56	58.20	88.16	-1,651.49	174.45	1,736.68	1,626.34	110.33	15.741	
11,705.21	7,870.00	10,956.98	7,802.26	56.63	58.25	88.16	-1,654.33	174.45	1,736.66	1,626.25	110.41	15.729	
11,800.00	7,870.00	11,004.59	7,800.90	57.88	58.94	88.12	-1,701.91	173.79	1,737.77	1,626.06	111.71	15.556	
11,900.00	7,870.00	11,063.00	7,799.28	59.21	59.78	88.07	-1,760.23	171.10	1,741.88	1,628.62	113.26	15.379	
12,000.00	7,870.00	11,102.38	7,798.25	60.57	60.34	88.04	-1,799.49	168.13	1,748.79	1,634.60	114.19	15.314	
12,100.00	7,870.00	11,152.55	7,797.05	61.94	61.04	88.00	-1,849.38	163.08	1,758.60	1,643.22	115.38	15.242	
12,200.00	7,870.00	11,242.84	7,796.30	63.33	62.31	87.99	-1,939.04	152.45	1,770.06	1,652.20	117.86	15.019	
12,300.00	7,870.00	11,690.95	7,799.96	64.74	69.06	88.12	-2,385.31	142.71	1,771.44	1,640.21	131.23	13.499	
12,400.00	7,870.00	11,775.17	7,800.60	66.16	70.42	88.13	-2,469.32	148.65	1,764.03	1,630.15	133.88	13.176	
12,500.00	7,870.00	11,902.87	7,801.26	67.59	72.49	88.14	-2,596.57	159.23	1,755.15	1,617.43	137.72	12.744	
12,600.00	7,870.00	11,971.31	7,801.71	69.04	73.60	88.15	-2,664.84	164.09	1,747.62	1,607.65	139.98	12.485	
12,700.00	7,870.00	12,066.24	7,802.59	70.51	75.15	88.17	-2,759.58	170.09	1,740.94	1,597.97	142.97	12.177	
12,800.00	7,870.00	12,160.67	7,803.47	71.98	76.69	88.20	-2,853.84	175.63	1,734.70	1,588.74	145.96	11.885	
12,900.00	7,870.00	12,267.29	7,804.46	73.47	78.44	88.22	-2,960.26	182.11	1,728.26	1,578.94	149.32	11.574	
13,000.00	7,870.00	12,366.76	7,805.30	74.96	80.07	88.24	-3,059.53	188.33	1,721.65	1,569.15	152.49	11.290	
13,100.00	7,870.00	12,474.32	7,806.26	76.47	81.85	88.27	-3,166.87	195.14	1,714.95	1,559.03	155.92	10.999	
13,200.00	7,870.00	12,585.89	7,807.16	77.99	83.71	88.29	-3,278.16	202.92	1,707.62	1,548.15	159.47	10.708	
13,300.00	7,870.00	12,738.05	7,807.58	79.51	86.27	88.29	-3,429.73	216.27	1,698.58	1,534.43	164.15	10.348	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 140-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	7,870.00	12,795.51	7,807.63	81.05	87.23	88.28	-3,486.91	221.91	1,688.68	1,522.44	166.24	10.158	
13,500.00	7,870.00	12,845.00	7,807.89	82.59	88.07	88.29	-3,536.30	224.95	1,682.02	1,514.02	168.00	10.012	
13,600.00	7,870.00	12,887.24	7,808.22	84.14	88.76	88.30	-3,578.53	226.18	1,678.54	1,509.15	169.39	9.909	
13,654.08	7,870.00	12,913.02	7,808.45	84.98	89.18	88.31	-3,604.30	226.36	1,677.97	1,507.80	170.17	9.860	
13,700.00	7,870.00	12,940.04	7,808.70	85.70	89.63	88.32	-3,631.32	226.10	1,678.20	1,507.20	170.99	9.814	
13,800.00	7,870.00	13,119.14	7,809.17	87.26	92.59	88.33	-3,810.38	229.15	1,675.67	1,498.72	176.96	9.469	
13,900.00	7,870.00	13,202.65	7,809.40	88.83	93.98	88.33	-3,893.85	231.56	1,672.43	1,492.73	179.69	9.307	
14,000.00	7,870.00	13,300.95	7,809.86	90.41	95.62	88.35	-3,992.12	234.06	1,669.54	1,486.61	182.93	9.127	
14,100.00	7,870.00	13,372.21	7,810.17	92.00	96.81	88.36	-4,063.36	235.14	1,667.67	1,482.44	185.23	9.003	
14,200.00	7,870.00	13,493.41	7,810.64	93.59	98.83	88.37	-4,184.56	236.50	1,666.23	1,476.97	189.26	8.804	
14,300.00	7,870.00	13,607.00	7,810.99	95.18	100.74	88.38	-4,298.11	239.46	1,663.24	1,470.20	193.04	8.616	
14,400.00	7,870.00	13,689.03	7,810.98	96.79	102.12	88.38	-4,380.12	241.44	1,660.53	1,464.79	195.74	8.483	
14,500.00	7,870.00	13,768.16	7,811.26	98.39	103.44	88.39	-4,459.23	242.14	1,659.26	1,460.93	198.32	8.366	
14,584.86	7,870.00	13,840.42	7,811.69	99.76	104.65	88.40	-4,531.49	242.24	1,658.86	1,458.17	200.68	8.266	
14,600.00	7,870.00	13,851.03	7,811.77	100.00	104.83	88.40	-4,542.10	242.19	1,658.88	1,457.86	201.02	8.252	
14,700.00	7,870.00	13,979.69	7,813.40	101.62	106.98	88.46	-4,670.75	240.85	1,659.90	1,454.49	205.41	8.081	
14,800.00	7,870.00	14,084.39	7,815.80	103.24	108.75	88.54	-4,775.40	242.73	1,657.67	1,448.73	208.94	7.934	
14,900.00	7,870.00	14,178.14	7,818.09	104.87	110.33	88.62	-4,869.12	243.77	1,656.16	1,444.07	212.09	7.809	
15,000.00	7,870.00	14,290.17	7,821.27	106.50	112.23	88.73	-4,981.09	245.23	1,654.46	1,438.55	215.91	7.663	
15,100.00	7,870.00	14,462.09	7,825.57	108.13	115.17	88.87	-5,152.85	250.74	1,651.33	1,429.63	221.70	7.449	
15,200.00	7,870.00	14,615.76	7,829.37	109.77	117.84	89.00	-5,305.92	263.62	1,642.19	1,415.51	226.68	7.245	
15,300.00	7,870.00	14,686.24	7,831.02	111.41	119.07	89.05	-5,376.12	269.67	1,633.27	1,403.99	229.28	7.123	
15,400.00	7,870.00	14,743.31	7,832.35	113.05	120.06	89.10	-5,433.06	273.37	1,626.52	1,395.14	231.38	7.030	
15,500.00	7,870.00	14,806.00	7,833.79	114.70	121.13	89.14	-5,495.70	275.21	1,622.89	1,389.36	233.53	6.949	
15,600.00	7,870.00	14,999.71	7,835.93	116.35	124.49	89.21	-5,689.03	286.15	1,616.79	1,376.87	239.92	6.739	
15,700.00	7,870.00	15,050.19	7,836.18	118.00	125.36	89.22	-5,739.41	289.33	1,609.83	1,367.98	241.86	6.656	
15,800.00	7,870.00	15,107.90	7,836.67	119.66	126.36	89.24	-5,797.08	291.72	1,605.36	1,361.52	243.84	6.584	
15,900.00	7,870.00	15,162.00	7,837.18	121.32	127.28	89.26	-5,851.16	292.51	1,603.59	1,358.06	245.53	6.531	
15,904.35	7,870.00	15,162.00	7,837.18	121.39	127.28	89.26	-5,851.16	292.51	1,603.59	1,358.08	245.51	6.532	
16,000.00	7,870.00	15,216.39	7,837.68	122.98	128.20	89.27	-5,905.54	291.77	1,604.68	1,357.64	247.04	6.496	
16,100.00	7,870.00	15,274.79	7,838.15	124.65	129.18	89.29	-5,963.88	289.18	1,608.67	1,360.12	248.54	6.472	
16,200.00	7,870.00	15,349.50	7,838.72	126.32	130.42	89.31	-6,038.43	284.36	1,614.72	1,364.01	250.71	6.441	
16,300.00	7,870.00	15,460.79	7,839.63	127.99	132.27	89.35	-6,149.49	277.23	1,620.75	1,366.11	254.64	6.365	
16,400.00	7,870.00	15,549.41	7,840.08	129.66	133.74	89.37	-6,237.90	271.19	1,627.21	1,369.74	257.47	6.320	
16,500.00	7,870.00	15,637.57	7,840.38	131.33	135.20	89.38	-6,325.83	264.89	1,634.04	1,373.78	260.26	6.278	
16,600.00	7,870.00	15,697.00	7,840.87	133.01	136.19	89.40	-6,385.05	259.86	1,642.36	1,380.81	261.55	6.279	
16,700.00	7,870.00	15,758.76	7,841.43	134.69	137.19	89.42	-6,446.44	253.18	1,653.02	1,390.21	262.82	6.290	
16,800.00	7,870.00	16,231.00	7,845.83	136.37	145.08	89.58	-6,913.95	234.46	1,666.37	1,385.28	281.09	5.928	
16,900.00	7,870.00	16,263.74	7,845.94	138.06	145.65	89.58	-6,946.58	237.02	1,658.29	1,375.55	282.74	5.865	
17,000.00	7,870.00	16,320.00	7,845.87	139.74	146.63	89.58	-7,002.82	238.15	1,654.91	1,370.12	284.78	5.811	
17,056.19	7,870.00	16,320.00	7,845.87	140.69	146.63	89.58	-7,002.82	238.15	1,653.95	1,369.30	284.66	5.810	
17,100.00	7,870.00	16,320.00	7,845.87	141.43	146.63	89.58	-7,002.82	238.15	1,654.54	1,370.19	284.34	5.819	
17,200.00	7,870.00	16,359.77	7,845.71	143.12	147.29	89.57	-7,042.55	236.50	1,658.74	1,373.78	284.96	5.821	
17,300.00	7,870.00	16,409.00	7,845.52	144.81	148.11	89.57	-7,091.54	231.74	1,667.29	1,381.54	285.74	5.835	
17,400.00	7,870.00	16,466.99	7,845.38	146.50	149.06	89.57	-7,149.08	224.56	1,678.71	1,391.92	286.79	5.853	
17,500.00	7,870.00	16,571.75	7,844.98	148.19	150.78	89.56	-7,253.11	212.17	1,690.20	1,399.74	290.46	5.819	
17,600.00	7,870.00	16,662.23	7,843.52	149.89	152.27	89.51	-7,342.92	201.33	1,701.86	1,408.55	293.30	5.802	
17,700.00	7,870.00	16,777.56	7,840.49	151.59	154.16	89.41	-7,457.39	187.58	1,713.49	1,415.93	297.55	5.759	
17,800.00	7,870.00	16,875.51	7,837.29	153.29	155.78	89.31	-7,554.65	176.44	1,724.56	1,423.75	300.82	5.733	
17,900.00	7,870.00	16,971.66	7,833.39	154.99	157.37	89.18	-7,650.08	165.28	1,735.89	1,431.92	303.97	5.711	
18,000.00	7,870.00	17,078.15	7,828.59	156.69	159.13	89.03	-7,755.77	153.27	1,746.90	1,439.20	307.70	5.677	
18,100.00	7,870.00	17,179.02	7,823.45	158.39	160.80	88.87	-7,855.89	142.05	1,757.80	1,446.68	311.11	5.650	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 140-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.00	7,870.00	17,286.11	7,817.53	160.09	162.58	88.68	-7,962.18	130.41	1,768.46	1,453.60	314.86	5.617	
18,300.00	7,870.00	17,386.54	7,811.58	161.80	164.25	88.50	-8,061.87	119.84	1,778.81	1,460.58	318.24	5.590	
18,400.00	7,870.00	17,497.18	7,803.98	163.51	166.09	88.26	-8,171.67	108.59	1,788.86	1,466.71	322.15	5.553	
18,455.45	7,870.00	17,555.56	7,799.59	164.45	167.07	88.13	-8,229.61	102.89	1,794.22	1,470.07	324.15	5.535	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-51.01	786.15	-971.02	1,249.42				
100.00	100.00	87.61	87.61	0.13	0.15	-51.01	786.11	-971.07	1,249.38	1,249.10	0.28	4,458.002	
200.00	200.00	187.17	187.17	0.49	0.31	-51.02	785.94	-971.27	1,249.43	1,248.62	0.80	1,553.171	
300.00	300.00	286.72	286.72	0.85	0.48	-51.04	785.64	-971.62	1,249.51	1,248.18	1.33	940.462	
400.00	400.00	384.47	384.46	1.21	0.77	-51.07	785.33	-972.08	1,249.68	1,247.71	1.98	632.617	
500.00	500.00	481.38	481.37	1.57	1.11	-51.08	785.31	-972.61	1,250.09	1,247.41	2.68	466.730	
600.00	600.00	577.06	577.05	1.93	1.44	-51.08	785.79	-973.07	1,250.78	1,247.41	3.37	370.977	
700.00	700.00	729.85	729.75	2.29	1.97	-50.89	787.91	-969.03	1,249.62	1,245.37	4.25	293.969	
800.00	800.00	843.07	842.50	2.64	2.36	-50.47	791.86	-959.73	1,245.43	1,240.42	5.00	248.914	
900.00	900.00	942.86	941.45	3.00	2.73	-49.91	798.46	-948.70	1,241.15	1,235.42	5.73	216.609	
1,000.00	1,000.00	1,049.11	1,046.24	3.36	3.16	-49.14	808.17	-934.14	1,236.59	1,230.08	6.51	190.085	
1,100.00	1,100.00	1,152.47	1,147.48	3.72	3.60	-48.19	820.20	-917.13	1,231.83	1,224.53	7.30	168.767	
1,200.00	1,200.00	1,245.39	1,238.34	4.08	4.01	-47.31	831.42	-901.24	1,227.20	1,219.13	8.07	152.038	
1,300.00	1,300.00	1,340.12	1,330.43	4.44	4.46	-46.28	845.10	-883.76	1,223.53	1,214.65	8.88	137.801	
1,400.00	1,399.98	1,424.27	1,411.63	4.79	4.89	-88.32	859.21	-866.75	1,220.63	1,210.97	9.66	126.351	
1,500.00	1,499.84	1,527.25	1,510.75	5.15	5.42	-87.29	877.77	-845.94	1,218.91	1,208.36	10.55	115.486	
1,600.00	1,599.45	1,664.13	1,642.55	5.51	6.16	-86.19	899.36	-815.99	1,214.40	1,202.75	11.64	104.322	
1,700.00	1,698.70	1,746.81	1,722.29	5.87	6.61	-85.73	912.08	-798.26	1,210.06	1,197.60	12.46	97.137	
1,800.00	1,797.47	1,878.69	1,849.15	6.24	7.34	-85.10	932.22	-768.39	1,204.81	1,191.26	13.55	88.888	
1,900.00	1,895.62	1,960.89	1,928.16	6.63	7.80	-84.90	944.03	-749.02	1,198.12	1,183.71	14.41	83.151	
2,000.00	1,993.06	2,060.43	2,024.26	7.04	8.35	-84.85	958.81	-727.68	1,192.84	1,177.47	15.37	77.618	
2,100.00	2,089.64	2,153.90	2,114.48	7.48	8.87	-84.96	972.33	-707.35	1,186.77	1,170.45	16.32	72.723	
2,200.00	2,185.27	2,272.15	2,228.49	7.94	9.53	-85.26	989.69	-681.20	1,180.34	1,162.90	17.44	67.697	
2,300.00	2,279.82	2,354.13	2,307.60	8.45	9.99	-85.67	1,001.49	-663.25	1,173.50	1,155.11	18.40	63.792	
2,400.00	2,373.17	2,428.83	2,379.97	8.99	10.40	-86.21	1,012.50	-648.39	1,168.12	1,148.78	19.34	60.398	
2,500.00	2,465.21	2,507.26	2,456.28	9.58	10.80	-86.92	1,024.37	-634.69	1,164.58	1,144.26	20.33	57.297	
2,574.08	2,532.50	2,565.22	2,512.84	10.04	11.10	-87.55	1,033.27	-625.65	1,163.10	1,142.02	21.07	55.194	
2,600.00	2,555.89	2,585.39	2,532.54	10.21	11.20	-87.77	1,036.41	-622.71	1,162.83	1,141.49	21.34	54.495	
2,700.00	2,646.16	2,776.92	2,718.46	10.88	12.22	-89.71	1,064.18	-586.55	1,158.38	1,135.40	22.98	50.409	
2,800.00	2,736.44	2,862.24	2,800.56	11.57	12.71	-90.47	1,076.18	-566.67	1,150.80	1,126.65	24.15	47.661	
2,900.00	2,826.71	2,977.24	2,911.18	12.27	13.37	-91.50	1,091.88	-539.44	1,142.91	1,117.45	25.46	44.888	
3,000.00	2,916.98	3,061.50	2,992.51	13.00	13.85	-92.32	1,102.79	-520.30	1,135.59	1,108.95	26.64	42.627	
3,100.00	3,007.25	3,148.63	3,076.53	13.73	14.35	-93.15	1,115.01	-500.76	1,129.52	1,101.68	27.84	40.578	
3,200.00	3,097.52	3,228.68	3,153.98	14.48	14.79	-93.95	1,126.50	-484.15	1,125.21	1,096.21	29.00	38.805	
3,300.00	3,187.80	3,333.49	3,255.39	15.23	15.37	-95.00	1,141.75	-462.46	1,121.41	1,091.14	30.27	37.046	
3,400.00	3,278.07	3,423.37	3,342.63	15.99	15.86	-95.96	1,154.15	-444.79	1,118.33	1,086.86	31.47	35.539	
3,500.00	3,368.34	3,516.79	3,433.09	16.76	16.37	-96.91	1,168.07	-426.00	1,115.93	1,083.25	32.68	34.145	
3,600.00	3,458.61	3,613.81	3,527.25	17.54	16.90	-97.94	1,182.36	-407.58	1,114.68	1,080.77	33.91	32.875	
3,700.00	3,548.89	3,713.86	3,624.28	18.32	17.44	-99.00	1,196.60	-387.73	1,112.84	1,077.70	35.14	31.671	
3,800.00	3,639.16	3,818.07	3,725.24	19.10	18.01	-100.08	1,212.30	-367.24	1,112.01	1,075.62	36.39	30.557	
3,900.00	3,729.43	3,950.64	3,853.21	19.89	18.76	-101.42	1,231.18	-338.28	1,109.28	1,071.52	37.76	29.378	
4,000.00	3,819.70	4,057.54	3,956.09	20.69	19.39	-102.49	1,245.38	-312.95	1,104.81	1,065.80	39.01	28.320	
4,100.00	3,909.98	4,124.39	4,020.71	21.48	19.76	-103.20	1,254.09	-298.16	1,101.87	1,061.78	40.09	27.482	
4,200.00	4,000.25	4,216.19	4,109.68	22.28	20.27	-104.20	1,266.67	-279.42	1,101.14	1,059.89	41.25	26.695	
4,231.24	4,028.45	4,242.10	4,134.67	22.53	20.41	-104.45	1,270.68	-273.91	1,101.03	1,059.43	41.60	26.468	CC
4,300.00	4,090.52	4,289.57	4,180.65	23.08	20.67	-104.94	1,277.91	-264.53	1,101.72	1,059.41	42.31	26.037	
4,400.00	4,180.79	4,375.01	4,263.79	23.88	21.12	-105.88	1,290.67	-249.55	1,104.80	1,061.40	43.40	25.457	
4,500.00	4,271.06	4,499.89	4,384.80	24.69	21.80	-107.15	1,310.57	-226.04	1,107.70	1,063.01	44.68	24.790	
4,600.00	4,361.34	4,622.18	4,502.95	25.49	22.50	-108.39	1,328.57	-200.11	1,108.20	1,062.27	45.93	24.129	
4,700.00	4,451.61	4,725.59	4,602.54	26.30	23.09	-109.41	1,343.49	-176.60	1,107.54	1,060.45	47.09	23.521	
4,769.17	4,514.05	4,790.89	4,665.39	26.86	23.47	-110.05	1,353.16	-161.79	1,107.41	1,059.55	47.86	23.137	
4,800.00	4,541.88	4,821.12	4,694.51	27.11	23.65	-110.35	1,357.59	-154.96	1,107.43	1,059.22	48.21	22.971	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,632.15	4,931.19	4,800.50	27.92	24.29	-111.44	1,373.39	-129.84	1,107.35	1,057.99	49.36	22.434	
4,973.77	4,698.74	4,999.31	4,866.00	28.52	24.69	-112.11	1,383.16	-113.84	1,107.04	1,056.88	50.16	22.070	
5,000.00	4,722.43	5,022.56	4,888.35	28.74	24.82	-112.33	1,386.58	-108.45	1,107.08	1,056.64	50.44	21.949 ES	
5,100.00	4,812.70	5,103.19	4,966.05	29.55	25.29	-113.13	1,398.45	-90.49	1,108.29	1,056.83	51.46	21.539	
5,200.00	4,902.97	5,185.50	5,045.61	30.37	25.75	-113.95	1,410.82	-73.43	1,111.38	1,058.93	52.45	21.189	
5,300.00	4,993.24	5,291.00	5,147.62	31.18	26.34	-114.98	1,427.20	-52.06	1,115.41	1,061.89	53.52	20.840	
5,400.00	5,083.51	5,374.86	5,228.97	32.00	26.80	-115.86	1,438.90	-35.42	1,119.70	1,065.24	54.46	20.560	
5,500.00	5,173.79	5,460.64	5,312.39	32.82	27.26	-116.77	1,451.01	-19.50	1,125.62	1,070.25	55.37	20.327	
5,600.00	5,264.06	5,586.34	5,434.23	33.63	27.94	-118.01	1,469.87	4.93	1,131.33	1,074.85	56.47	20.033	
5,700.00	5,354.33	5,686.02	5,530.67	34.45	28.50	-119.00	1,484.08	25.76	1,135.74	1,078.30	57.44	19.773	
5,800.00	5,444.60	5,773.55	5,615.62	35.27	28.98	-119.92	1,495.75	43.32	1,141.10	1,082.79	58.31	19.568	
5,900.00	5,534.88	5,877.51	5,716.66	36.09	29.54	-121.01	1,509.43	63.59	1,147.39	1,088.16	59.23	19.373	
6,000.00	5,625.15	5,989.83	5,825.43	36.91	30.16	-122.14	1,524.40	87.28	1,152.46	1,092.30	60.16	19.157	
6,100.00	5,715.42	6,089.33	5,921.73	37.74	30.71	-123.15	1,537.39	108.68	1,157.47	1,096.44	61.03	18.965	
6,200.00	5,805.69	6,176.10	6,005.76	38.56	31.19	-124.02	1,548.78	127.06	1,163.18	1,101.33	61.85	18.808	
6,300.00	5,895.96	6,269.05	6,096.01	39.38	31.70	-124.97	1,560.53	145.93	1,170.03	1,107.38	62.65	18.676	
6,400.00	5,986.24	6,354.83	6,179.21	40.20	32.16	-125.78	1,572.56	162.98	1,177.82	1,114.39	63.43	18.568	
6,500.00	6,076.51	6,473.61	6,294.21	41.03	32.82	-126.86	1,590.03	187.00	1,185.67	1,121.31	64.36	18.423	
6,600.00	6,166.78	6,566.55	6,383.94	41.85	33.35	-127.66	1,604.12	206.70	1,192.86	1,127.68	65.18	18.301	
6,700.00	6,257.05	6,647.26	6,462.35	42.67	33.79	-128.42	1,614.88	222.53	1,201.71	1,135.81	65.90	18.236	
6,800.00	6,347.33	6,770.67	6,581.59	43.50	34.48	-129.48	1,633.25	248.42	1,209.48	1,142.67	66.81	18.102	
6,900.00	6,437.60	6,878.79	6,685.59	44.32	35.11	-130.28	1,651.53	271.65	1,217.27	1,149.55	67.71	17.977	
7,000.00	6,527.87	7,000.00	6,951.92	45.15	35.89	-133.55	1,670.92	349.12	1,220.84	1,153.45	67.39	18.116	
7,100.00	6,618.14	7,217.24	7,004.92	45.98	36.94	-134.95	1,658.32	368.65	1,215.39	1,147.21	68.18	17.826	
7,147.14	6,660.70	7,234.94	7,021.00	46.36	37.00	-135.43	1,653.16	373.95	1,214.76	1,146.37	68.38	17.764	
7,200.00	6,708.41	7,260.00	7,043.69	46.80	37.09	-136.14	1,645.10	380.87	1,215.60	1,147.12	68.48	17.750	
7,300.00	6,798.69	7,287.02	7,068.12	47.63	37.13	-136.94	1,635.67	387.54	1,221.68	1,152.96	68.73	17.776	
7,400.00	6,888.96	7,318.31	7,096.42	48.45	37.19	-137.88	1,624.12	394.22	1,233.88	1,165.20	68.69	17.964	
7,500.00	6,979.23	7,349.00	7,124.14	49.28	37.24	-138.82	1,612.14	399.67	1,252.12	1,183.69	68.44	18.295	
7,600.00	7,069.50	7,387.21	7,158.40	50.11	37.27	-140.01	1,596.21	405.34	1,275.98	1,208.02	67.96	18.777	
7,692.09	7,152.63	7,420.82	7,188.14	50.87	37.29	-141.09	1,581.14	409.62	1,302.53	1,235.13	67.39	19.328	
7,700.00	7,159.79	7,438.00	7,203.18	50.93	37.30	-143.11	1,573.07	411.55	1,305.16	1,237.87	67.29	19.396	
7,750.00	7,205.70	7,444.44	7,208.78	51.32	37.30	-154.03	1,569.98	412.24	1,321.11	1,254.11	67.00	19.719	
7,800.00	7,252.52	7,476.54	7,236.48	51.66	37.31	-168.37	1,554.13	415.69	1,337.56	1,270.92	66.63	20.073	
7,850.00	7,299.89	7,509.50	7,264.45	51.96	37.31	174.88	1,537.05	419.27	1,353.97	1,287.69	66.28	20.427	
7,900.00	7,347.44	7,547.08	7,295.68	52.20	37.31	157.05	1,516.56	423.41	1,370.07	1,304.13	65.93	20.780	
7,950.00	7,394.83	7,589.07	7,329.44	52.39	37.30	140.33	1,492.11	428.43	1,385.44	1,319.86	65.58	21.126	
8,000.00	7,441.68	7,626.68	7,358.55	52.53	37.29	126.35	1,468.82	433.29	1,399.90	1,334.65	65.24	21.457	
8,050.00	7,487.65	7,656.50	7,380.77	52.62	37.28	115.37	1,449.31	437.21	1,413.54	1,348.61	64.93	21.769	
8,100.00	7,532.37	7,686.43	7,402.20	52.67	37.26	106.81	1,428.80	441.11	1,426.30	1,361.67	64.63	22.068	
8,150.00	7,575.52	7,705.00	7,415.06	52.67	37.26	100.24	1,415.61	443.52	1,438.13	1,373.75	64.38	22.338	
8,200.00	7,616.76	7,741.91	7,439.51	52.63	37.22	94.88	1,388.37	448.19	1,448.79	1,384.70	64.09	22.606	
8,250.00	7,655.77	7,768.72	7,456.30	52.55	37.19	90.70	1,367.72	451.44	1,458.40	1,394.56	63.84	22.843	
8,300.00	7,692.27	7,794.00	7,471.35	52.44	37.17	87.37	1,347.63	454.39	1,466.81	1,403.18	63.63	23.052	
8,350.00	7,725.97	7,794.00	7,471.35	52.29	37.17	84.78	1,347.63	454.39	1,474.45	1,410.87	63.57	23.194	
8,400.00	7,756.62	7,824.73	7,488.46	52.12	37.11	82.61	1,322.30	457.40	1,480.59	1,417.19	63.41	23.350	
8,450.00	7,783.98	7,839.68	7,496.26	51.92	37.09	80.92	1,309.59	458.48	1,486.05	1,422.67	63.37	23.449	
8,500.00	7,807.85	7,883.00	7,516.80	51.70	37.01	79.66	1,271.50	460.20	1,491.39	1,428.20	63.19	23.602	
8,550.00	7,828.05	7,883.00	7,516.80	51.45	37.01	78.68	1,271.50	460.20	1,494.10	1,430.73	63.37	23.578	
8,600.00	7,844.41	7,886.97	7,518.53	51.20	37.00	77.96	1,267.93	460.26	1,496.25	1,432.65	63.60	23.526	
8,650.00	7,856.82	7,929.87	7,536.44	50.93	36.90	77.79	1,228.96	461.05	1,497.01	1,433.45	63.57	23.550	
8,700.00	7,865.18	7,972.78	7,552.86	50.65	36.81	77.99	1,189.33	462.05	1,495.83	1,432.26	63.57	23.530	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,750.00	7,869.43	7,998.31	7,562.02	50.36	36.75	78.37	1,165.50	462.55	1,493.01	1,429.21	63.80	23.403	
8,776.25	7,870.00	8,011.49	7,566.62	50.21	36.72	78.69	1,153.15	462.69	1,491.01	1,427.07	63.94	23.319	
8,800.00	7,870.00	8,023.38	7,570.69	50.08	36.69	78.84	1,141.98	462.74	1,489.15	1,425.07	64.08	23.240	
8,900.00	7,870.00	8,083.20	7,590.10	49.53	36.56	79.58	1,085.40	462.07	1,483.40	1,418.83	64.57	22.974	
9,000.00	7,870.00	8,167.93	7,615.10	49.01	36.38	80.54	1,004.46	460.75	1,479.37	1,414.51	64.86	22.809	
9,100.00	7,870.00	8,240.00	7,630.85	48.52	36.25	81.15	934.18	459.49	1,477.20	1,411.98	65.22	22.649	
9,198.35	7,870.00	8,320.60	7,641.48	48.07	36.11	81.57	854.32	458.02	1,476.68	1,411.22	65.45	22.561	
9,200.00	7,870.00	8,322.01	7,641.61	48.06	36.11	81.57	852.92	457.99	1,476.68	1,411.22	65.46	22.560	
9,300.00	7,870.00	8,411.45	7,649.37	47.63	36.00	81.88	763.82	456.20	1,477.07	1,411.40	65.68	22.489	
9,400.00	7,870.00	8,541.03	7,658.55	47.22	35.94	82.24	634.60	454.65	1,476.98	1,411.14	65.84	22.433	
9,500.00	7,870.00	8,655.59	7,660.08	46.83	36.03	82.29	520.07	456.35	1,474.95	1,408.71	66.24	22.266	
9,600.00	7,870.00	8,753.92	7,660.34	46.48	36.24	82.29	421.76	458.13	1,472.79	1,405.92	66.86	22.027	
9,700.00	7,870.00	8,854.88	7,660.57	46.14	36.58	82.28	320.81	459.91	1,470.68	1,403.02	67.66	21.738	
9,800.00	7,870.00	8,961.77	7,660.43	45.83	37.11	82.26	213.95	462.14	1,468.29	1,399.65	68.64	21.392	
9,900.00	7,870.00	9,054.18	7,660.36	45.54	37.68	82.25	121.56	463.93	1,466.03	1,396.31	69.72	21.027	
10,000.00	7,870.00	9,159.78	7,660.22	45.27	38.47	82.23	15.98	466.17	1,463.61	1,392.57	71.04	20.602	
10,100.00	7,870.00	9,256.99	7,660.13	45.03	39.29	82.22	-81.21	468.17	1,461.24	1,388.81	72.43	20.174	
10,200.00	7,870.00	9,363.89	7,660.12	44.82	40.29	82.20	-188.08	470.45	1,458.81	1,384.73	74.07	19.694	
10,300.00	7,870.00	9,466.45	7,659.54	44.66	41.33	82.16	-290.61	473.28	1,455.81	1,380.01	75.80	19.207	
10,400.00	7,870.00	9,543.97	7,657.77	44.56	42.16	82.08	-368.08	475.12	1,453.47	1,376.24	77.22	18.822	
10,500.00	7,870.00	9,628.85	7,656.29	44.58	43.09	82.02	-452.95	475.62	1,452.76	1,373.93	78.83	18.429	
10,600.00	7,870.00	9,732.21	7,658.58	44.82	44.26	82.11	-556.27	475.36	1,452.37	1,371.46	80.92	17.949	
10,700.00	7,870.00	9,827.50	7,661.01	45.36	45.39	82.20	-651.53	475.22	1,451.83	1,368.89	82.95	17.503	
10,800.00	7,870.00	9,944.38	7,663.66	46.15	46.81	82.30	-768.38	475.33	1,451.12	1,365.59	85.53	16.967	
10,900.00	7,870.00	10,065.16	7,666.71	47.09	48.36	82.41	-889.11	477.24	1,448.87	1,360.53	88.34	16.402	
11,000.00	7,870.00	10,182.27	7,669.45	48.13	49.90	82.50	-1,006.14	480.53	1,445.44	1,354.27	91.17	15.854	
11,100.00	7,870.00	10,242.58	7,670.32	49.22	50.71	82.52	-1,066.41	482.14	1,442.47	1,349.81	92.66	15.567	
11,138.13	7,870.00	10,261.92	7,670.36	49.65	50.97	82.52	-1,085.75	482.19	1,442.21	1,349.08	93.13	15.486	
11,200.00	7,870.00	10,301.64	7,670.09	50.37	51.50	82.52	-1,125.47	481.64	1,442.83	1,348.75	94.08	15.337	
11,300.00	7,870.00	10,424.12	7,668.31	51.55	53.17	82.45	-1,247.93	480.71	1,443.41	1,346.24	97.17	14.855	
11,400.00	7,870.00	10,545.45	7,665.46	52.76	54.86	82.33	-1,369.23	481.49	1,442.77	1,342.47	100.30	14.384	
11,500.00	7,870.00	10,637.01	7,662.86	54.00	56.16	82.22	-1,460.74	482.76	1,441.45	1,338.77	102.68	14.038	
11,600.00	7,870.00	10,746.94	7,659.31	55.27	57.75	82.07	-1,570.60	484.55	1,439.92	1,334.30	105.61	13.634	
11,660.37	7,870.00	10,784.18	7,658.03	56.05	58.29	82.01	-1,607.81	484.90	1,439.43	1,332.87	106.56	13.508	
11,700.00	7,870.00	10,808.62	7,657.16	56.56	58.65	81.98	-1,632.24	484.81	1,439.64	1,332.47	107.17	13.433	
11,800.00	7,870.00	10,924.20	7,652.91	57.88	60.33	81.82	-1,747.74	483.98	1,440.59	1,330.24	110.35	13.055	
11,884.62	7,870.00	11,015.31	7,649.35	59.01	61.68	81.67	-1,838.77	484.35	1,440.45	1,327.58	112.88	12.761	
11,900.00	7,870.00	11,021.24	7,649.08	59.21	61.77	81.66	-1,844.70	484.32	1,440.48	1,327.47	113.01	12.746	
12,000.00	7,870.00	11,094.12	7,645.53	60.57	62.85	81.52	-1,917.48	483.71	1,441.67	1,326.75	114.92	12.545	
12,100.00	7,870.00	11,210.79	7,639.00	61.94	64.60	81.27	-2,033.97	482.52	1,443.19	1,324.96	118.22	12.207	
12,200.00	7,870.00	11,308.85	7,632.96	63.33	66.09	81.03	-2,131.84	482.47	1,443.85	1,322.90	120.95	11.937	
12,300.00	7,870.00	11,399.36	7,627.26	64.74	67.46	80.81	-2,222.16	481.53	1,445.52	1,322.06	123.46	11.709	
12,400.00	7,870.00	11,492.53	7,621.19	66.16	68.89	80.58	-2,315.13	480.59	1,447.26	1,321.20	126.06	11.481	
12,500.00	7,870.00	11,578.99	7,615.30	67.59	70.21	80.36	-2,401.38	478.80	1,450.08	1,321.64	128.44	11.290	
12,600.00	7,870.00	11,687.66	7,610.35	69.04	71.89	80.18	-2,509.88	475.86	1,453.21	1,321.54	131.66	11.037	
12,700.00	7,870.00	11,805.19	7,604.90	70.51	73.71	79.98	-2,627.27	474.09	1,455.15	1,319.94	135.21	10.762	
12,800.00	7,870.00	11,918.62	7,599.49	71.98	75.50	79.77	-2,740.57	473.53	1,456.15	1,317.52	138.63	10.504	
12,900.00	7,870.00	12,012.59	7,595.21	73.47	76.99	79.60	-2,834.45	473.85	1,456.33	1,314.93	141.40	10.299	
13,000.00	7,870.00	12,082.02	7,591.47	74.96	78.09	79.47	-2,903.77	472.77	1,458.43	1,315.15	143.28	10.179	
13,100.00	7,870.00	12,196.99	7,584.27	76.47	79.91	79.20	-3,018.50	470.97	1,460.78	1,313.99	146.78	9.952	
13,200.00	7,870.00	12,301.77	7,578.20	77.99	81.58	78.97	-3,123.10	469.83	1,462.62	1,312.67	149.94	9.754	
13,300.00	7,870.00	12,424.59	7,574.43	79.51	83.56	78.83	-3,245.84	468.85	1,463.70	1,309.86	153.84	9.514	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.00	7,870.00	12,535.98	7,573.47	81.05	85.36	78.79	-3,357.23	469.02	1,463.38	1,305.99	157.39	9.298	
13,500.00	7,870.00	12,643.57	7,572.08	82.59	87.11	78.73	-3,464.80	469.94	1,462.46	1,301.65	160.81	9.095	
13,600.00	7,870.00	12,731.25	7,570.95	84.14	88.55	78.67	-3,552.47	470.89	1,461.36	1,297.85	163.51	8.937	
13,616.67	7,870.00	12,742.85	7,570.78	84.40	88.74	78.66	-3,564.07	470.91	1,461.33	1,297.48	163.85	8.919	
13,700.00	7,870.00	12,807.18	7,569.75	85.70	89.78	78.63	-3,628.38	470.34	1,462.00	1,296.23	165.77	8.819	
13,800.00	7,870.00	12,905.54	7,569.45	87.26	91.38	78.63	-3,726.73	468.61	1,463.45	1,294.55	168.91	8.664	
13,900.00	7,870.00	13,012.41	7,569.47	88.83	93.13	78.64	-3,833.58	466.97	1,464.62	1,292.23	172.39	8.496	
14,000.00	7,870.00	13,131.57	7,569.17	90.41	95.08	78.63	-3,952.74	466.11	1,465.07	1,288.73	176.34	8.308	
14,100.00	7,870.00	13,241.72	7,569.71	92.00	96.91	78.64	-4,062.89	466.46	1,464.32	1,284.35	179.97	8.136	
14,172.65	7,870.00	13,298.89	7,571.02	93.15	97.85	78.70	-4,120.04	466.23	1,464.02	1,282.24	181.79	8.054	
14,200.00	7,870.00	13,322.91	7,571.87	93.59	98.25	78.73	-4,144.05	465.94	1,464.06	1,281.49	182.57	8.019	
14,300.00	7,870.00	13,439.91	7,576.46	95.18	100.19	78.91	-4,260.95	465.00	1,463.76	1,277.16	186.60	7.844	
14,400.00	7,870.00	13,526.51	7,580.03	96.79	101.63	79.05	-4,347.48	464.99	1,462.74	1,273.28	189.45	7.721	
14,400.21	7,870.00	13,526.63	7,580.03	96.79	101.63	79.05	-4,347.60	464.99	1,462.74	1,273.28	189.46	7.721	
14,500.00	7,870.00	13,585.00	7,581.56	98.39	102.59	79.11	-4,405.93	463.58	1,464.23	1,273.13	191.09	7.662	
14,600.00	7,870.00	13,683.90	7,583.18	100.00	104.22	79.20	-4,504.75	459.88	1,467.25	1,272.88	194.37	7.549	
14,700.00	7,870.00	13,793.52	7,584.54	101.62	106.03	79.27	-4,614.30	456.46	1,469.75	1,271.65	198.11	7.419	
14,800.00	7,870.00	13,904.32	7,584.11	103.24	107.87	79.27	-4,725.07	453.86	1,471.81	1,269.97	201.84	7.292	
14,900.00	7,870.00	14,030.28	7,581.57	104.87	109.98	79.18	-4,851.00	453.08	1,472.47	1,266.37	206.10	7.144	
14,915.05	7,870.00	14,049.41	7,581.00	105.11	110.30	79.16	-4,870.12	453.20	1,472.41	1,265.67	206.74	7.122	
15,000.00	7,870.00	14,098.51	7,579.85	106.50	111.12	79.12	-4,919.20	452.61	1,473.29	1,265.21	208.08	7.080	
15,100.00	7,870.00	14,208.08	7,577.61	108.13	112.96	79.04	-5,028.73	450.45	1,475.32	1,263.60	211.73	6.968	
15,200.00	7,870.00	14,296.65	7,577.06	109.77	114.44	79.03	-5,117.28	448.77	1,476.96	1,262.41	214.55	6.884	
15,300.00	7,870.00	14,401.42	7,577.69	111.41	116.19	79.07	-5,222.02	446.47	1,478.67	1,260.57	218.10	6.780	
15,400.00	7,870.00	14,478.75	7,578.53	113.05	117.49	79.12	-5,299.30	444.06	1,481.18	1,260.70	220.48	6.718	
15,500.00	7,870.00	14,598.15	7,580.35	114.70	119.49	79.21	-5,418.63	440.22	1,483.71	1,259.01	224.71	6.603	
15,600.00	7,870.00	14,715.83	7,580.32	116.35	121.47	79.22	-5,536.29	438.16	1,485.10	1,256.32	228.78	6.491	
15,700.00	7,870.00	14,829.50	7,578.86	118.00	123.40	79.17	-5,649.95	437.79	1,485.33	1,252.70	232.63	6.385	
15,800.00	7,870.00	14,968.68	7,578.82	119.66	125.77	79.15	-5,789.11	439.60	1,483.69	1,246.24	237.45	6.248	
15,900.00	7,870.00	15,083.81	7,579.55	121.32	127.75	79.15	-5,904.18	443.29	1,480.04	1,238.69	241.35	6.132	
16,000.00	7,870.00	15,181.85	7,580.05	122.98	129.44	79.14	-6,002.16	446.62	1,476.27	1,231.63	244.64	6.034	
16,100.00	7,870.00	15,291.93	7,580.34	124.65	131.34	79.12	-6,112.16	450.63	1,472.33	1,223.98	248.35	5.929	
16,200.00	7,870.00	15,383.60	7,580.51	126.32	132.92	79.10	-6,203.77	454.19	1,468.15	1,216.73	251.42	5.839	
16,300.00	7,870.00	15,488.18	7,580.51	127.99	134.73	79.07	-6,308.27	458.06	1,464.18	1,209.25	254.93	5.743	
16,400.00	7,870.00	15,583.43	7,580.30	129.66	136.37	79.03	-6,403.46	461.55	1,460.29	1,202.17	258.12	5.657	
16,500.00	7,870.00	15,680.72	7,580.51	131.33	138.06	79.01	-6,500.69	465.00	1,456.44	1,195.04	261.39	5.572	
16,600.00	7,870.00	15,762.17	7,582.80	133.01	139.46	79.08	-6,582.08	467.03	1,453.17	1,189.01	264.16	5.501	
16,697.70	7,870.00	15,825.00	7,586.00	134.65	140.54	79.20	-6,644.82	466.96	1,452.02	1,185.82	266.19	5.455	
16,700.00	7,870.00	15,825.00	7,586.00	134.69	140.54	79.20	-6,644.82	466.96	1,452.02	1,185.85	266.17	5.455	
16,800.00	7,870.00	15,900.86	7,590.60	136.37	141.83	79.39	-6,720.52	465.14	1,452.95	1,184.28	268.66	5.408	
16,900.00	7,870.00	15,978.95	7,593.90	138.06	143.16	79.54	-6,798.48	462.04	1,455.71	1,184.55	271.16	5.369	
17,000.00	7,870.00	16,075.99	7,597.12	139.74	144.80	79.69	-6,895.37	457.81	1,459.07	1,184.55	274.52	5.315	
17,100.00	7,870.00	16,167.12	7,599.66	141.43	146.34	79.82	-6,986.36	453.37	1,463.02	1,185.45	277.58	5.271	
17,200.00	7,870.00	16,271.05	7,602.33	143.12	148.10	79.96	-7,090.12	448.20	1,467.14	1,185.88	281.26	5.216	
17,300.00	7,870.00	16,374.76	7,604.80	144.81	149.85	80.08	-7,193.70	443.53	1,470.83	1,185.90	284.93	5.162	
17,400.00	7,870.00	16,471.32	7,606.73	146.50	151.49	80.18	-7,290.14	439.21	1,474.56	1,186.32	288.24	5.116	
17,500.00	7,870.00	16,570.65	7,607.93	148.19	153.18	80.25	-7,389.36	434.71	1,478.49	1,186.83	291.66	5.069	
17,600.00	7,870.00	16,665.04	7,608.36	149.89	154.78	80.30	-7,483.65	430.41	1,482.57	1,187.76	294.81	5.029	
17,700.00	7,870.00	16,763.11	7,608.08	151.59	156.45	80.31	-7,581.61	425.77	1,486.95	1,188.83	298.12	4.988	
17,800.00	7,870.00	17,800.00	7,614.29	153.29	174.21	80.58	-7,729.44	420.13	1,489.64	1,170.45	319.19	4.667	
17,900.00	7,870.00	17,051.61	7,625.30	154.99	161.39	81.00	-7,869.36	419.08	1,488.51	1,179.08	309.43	4.810	
18,000.00	7,870.00	17,174.03	7,633.40	156.69	163.52	81.31	-7,991.50	420.00	1,486.43	1,172.49	313.95	4.735	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	7,870.00	17,281.03	7,638.91	158.39	165.38	81.50	-8,098.33	422.46	1,483.04	1,165.25	317.79	4.667	
18,200.00	7,870.00	17,397.63	7,644.04	160.09	167.41	81.67	-8,214.77	426.09	1,478.97	1,157.02	321.95	4.594	
18,300.00	7,870.00	17,497.45	7,647.74	161.80	169.16	81.79	-8,314.45	429.70	1,474.52	1,149.03	325.49	4.530	
18,400.00	7,870.00	17,583.00	7,650.55	163.51	170.66	81.88	-8,399.89	433.09	1,469.89	1,141.37	328.52	4.474	SF
18,452.59	7,870.00	17,583.00	7,650.55	164.40	170.66	81.88	-8,399.89	433.09	1,468.95	1,140.66	328.29	4.475	
18,455.45	7,870.00	17,583.00	7,650.55	164.45	170.66	81.88	-8,399.89	433.09	1,468.95	1,140.68	328.27	4.475	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-50.72	786.15	-961.22	1,241.82				
100.00	100.00	88.64	88.64	0.13	0.15	-50.72	786.19	-961.16	1,241.74	1,241.46	0.28	4,406.500	
200.00	200.00	189.37	189.37	0.49	0.32	-50.71	786.34	-960.93	1,241.66	1,240.85	0.81	1,537.229	
300.00	300.00	290.10	290.10	0.85	0.48	-50.69	786.59	-960.54	1,241.52	1,240.19	1.33	930.918	
400.00	400.00	390.19	390.18	1.21	0.78	-50.67	786.76	-960.18	1,241.34	1,239.35	1.99	624.298	
500.00	500.00	490.03	490.03	1.57	1.12	-50.69	786.30	-960.33	1,241.17	1,238.48	2.69	460.986	
600.00	600.00	592.02	592.01	1.93	1.48	-50.75	785.17	-961.04	1,241.01	1,237.61	3.40	364.564	
700.00	700.00	728.54	728.46	2.29	1.96	-50.66	784.89	-957.57	1,238.80	1,234.56	4.24	292.008	
800.00	800.00	862.41	861.82	2.64	2.45	-50.21	788.63	-946.79	1,234.42	1,229.34	5.08	243.040	
900.00	900.00	964.86	963.22	3.00	2.84	-49.59	794.75	-933.62	1,228.39	1,222.56	5.82	210.935	
1,000.00	1,000.00	1,061.26	1,057.77	3.36	3.24	-48.75	804.63	-917.66	1,222.45	1,215.88	6.57	185.979	
1,100.00	1,100.00	1,155.86	1,149.37	3.72	3.67	-47.67	818.51	-898.62	1,217.06	1,209.71	7.36	165.436	
1,200.00	1,200.00	1,241.25	1,231.40	4.08	4.08	-46.57	833.13	-879.94	1,212.56	1,204.42	8.13	149.091	
1,300.00	1,300.00	1,368.87	1,354.23	4.44	4.74	-44.94	854.53	-852.77	1,209.06	1,199.92	9.14	132.260	
1,400.00	1,399.98	1,474.44	1,454.83	4.79	5.33	-86.58	872.38	-826.21	1,203.28	1,193.19	10.09	119.272	
1,500.00	1,499.84	1,556.82	1,532.82	5.15	5.82	-85.62	887.58	-804.45	1,198.16	1,187.22	10.94	109.558	
1,600.00	1,599.45	1,624.69	1,596.98	5.51	6.23	-84.90	901.32	-787.12	1,195.15	1,183.44	11.71	102.060	
1,700.00	1,698.70	1,723.17	1,690.35	5.87	6.82	-83.99	921.79	-763.43	1,193.60	1,180.93	12.67	94.180	
1,800.00	1,797.47	1,872.50	1,832.86	6.24	7.71	-83.02	948.52	-727.77	1,190.04	1,176.11	13.94	85.395	
1,900.00	1,895.62	2,011.83	1,966.25	6.63	8.54	-82.53	967.19	-692.17	1,181.39	1,166.27	15.13	78.102	
2,000.00	1,993.06	2,098.27	2,049.34	7.04	9.04	-82.52	977.45	-670.64	1,171.77	1,155.73	16.04	73.055	
2,100.00	2,089.64	2,189.69	2,137.33	7.48	9.57	-82.66	989.21	-648.79	1,163.06	1,146.06	17.00	68.409	
2,200.00	2,185.27	2,310.79	2,253.56	7.94	10.28	-82.97	1,003.53	-617.99	1,152.02	1,133.87	18.15	63.467	
2,300.00	2,279.82	2,388.58	2,328.40	8.45	10.73	-83.42	1,012.72	-598.90	1,141.32	1,122.22	19.11	59.737	
2,400.00	2,373.17	2,461.20	2,398.60	8.99	11.13	-84.00	1,022.04	-582.83	1,132.56	1,112.50	20.06	56.467	
2,500.00	2,465.21	2,538.11	2,473.05	9.58	11.56	-84.71	1,033.06	-566.97	1,125.67	1,104.61	21.06	53.456	
2,574.08	2,532.50	2,596.69	2,529.87	10.04	11.88	-85.33	1,041.93	-555.78	1,121.69	1,099.86	21.83	51.376	
2,600.00	2,555.89	2,632.33	2,564.38	10.21	12.08	-85.68	1,047.50	-548.84	1,120.34	1,098.15	22.20	50.470	
2,700.00	2,646.16	2,762.59	2,689.32	10.88	12.85	-86.75	1,068.69	-518.75	1,113.33	1,089.72	23.61	47.163	
2,800.00	2,736.44	2,845.19	2,768.33	11.57	13.34	-87.40	1,082.06	-498.77	1,105.81	1,081.03	24.78	44.628	
2,900.00	2,826.71	2,984.03	2,902.03	12.27	14.15	-88.69	1,101.26	-466.72	1,097.59	1,071.36	26.23	41.853	
3,000.00	2,916.98	3,078.10	2,992.55	13.00	14.70	-89.59	1,112.78	-443.85	1,087.72	1,060.25	27.46	39.604	
3,100.00	3,007.25	3,157.65	3,068.76	13.73	15.18	-90.28	1,124.33	-424.18	1,079.39	1,050.73	28.65	37.669	
3,200.00	3,097.52	3,240.26	3,148.35	14.48	15.66	-91.08	1,136.50	-405.73	1,073.14	1,043.29	29.85	35.947	
3,300.00	3,187.80	3,372.67	3,275.83	15.23	16.43	-92.36	1,155.71	-375.54	1,066.96	1,035.67	31.28	34.106	
3,400.00	3,278.07	3,463.37	3,363.31	15.99	16.95	-93.32	1,166.32	-354.09	1,058.49	1,025.98	32.51	32.564	
3,500.00	3,368.34	3,543.38	3,441.00	16.76	17.39	-94.27	1,175.44	-337.29	1,052.13	1,018.47	33.66	31.256	
3,600.00	3,458.61	3,634.72	3,529.23	17.54	17.91	-95.24	1,188.37	-317.53	1,047.43	1,012.54	34.88	30.026	
3,700.00	3,548.89	3,741.08	3,631.41	18.32	18.53	-96.26	1,204.97	-293.13	1,042.92	1,006.73	36.20	28.811	
3,800.00	3,639.16	3,856.23	3,741.89	19.10	19.22	-97.37	1,222.08	-265.52	1,037.45	999.90	37.55	27.631	
3,900.00	3,729.43	3,924.29	3,807.78	19.89	19.59	-98.14	1,230.94	-250.96	1,033.18	994.55	38.63	26.743	
4,000.00	3,819.70	4,013.51	3,895.00	20.69	20.05	-99.34	1,240.93	-235.05	1,031.30	991.54	39.76	25.939	
4,100.00	3,909.98	4,117.14	3,995.77	21.48	20.61	-100.62	1,254.19	-214.91	1,029.55	988.60	40.95	25.141	
4,200.00	4,000.25	4,223.04	4,097.69	22.28	21.22	-101.68	1,270.97	-191.60	1,027.66	985.44	42.21	24.345	
4,300.00	4,090.52	4,348.68	4,217.32	23.08	22.01	-102.75	1,292.65	-159.92	1,023.97	980.37	43.60	23.483	
4,400.00	4,180.79	4,447.51	4,311.96	23.88	22.61	-103.73	1,307.05	-135.40	1,019.62	974.79	44.83	22.745	
4,500.00	4,271.06	4,541.48	4,401.91	24.69	23.19	-104.67	1,320.90	-111.98	1,015.58	969.55	46.02	22.068	
4,600.00	4,361.34	4,620.75	4,477.73	25.49	23.67	-105.42	1,333.59	-92.65	1,012.93	965.78	47.15	21.485	
4,645.48	4,402.39	4,652.90	4,508.66	25.86	23.86	-105.75	1,338.65	-85.51	1,012.61	964.99	47.62	21.263	
4,700.00	4,451.61	4,694.56	4,548.92	26.30	24.10	-106.21	1,345.07	-76.94	1,013.03	964.84	48.19	21.022	
4,800.00	4,541.88	4,797.51	4,648.72	27.11	24.66	-107.37	1,360.64	-56.98	1,015.07	965.76	49.32	20.583	
4,900.00	4,632.15	4,956.81	4,802.71	27.92	25.56	-109.31	1,379.49	-20.93	1,012.98	962.43	50.55	20.040	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	5,055.93	4,897.88	28.74	26.15	-110.49	1,390.57	4.43	1,008.63	957.03	51.60	19.546	
5,100.00	4,812.70	5,135.15	4,974.12	29.55	26.61	-111.43	1,399.75	23.92	1,005.80	953.19	52.60	19.122	
5,167.26	4,873.41	5,186.59	5,023.77	30.10	26.91	-112.05	1,406.06	35.79	1,005.23	951.99	53.24	18.880	CC
5,200.00	4,902.97	5,209.00	5,045.42	30.37	27.04	-112.32	1,408.94	40.78	1,005.37	951.83	53.54	18.778	
5,300.00	4,993.24	5,286.57	5,120.57	31.18	27.46	-113.24	1,419.32	56.97	1,007.51	953.06	54.45	18.505	
5,400.00	5,083.51	5,392.59	5,223.43	32.00	28.04	-114.49	1,433.89	78.15	1,011.03	955.59	55.44	18.237	
5,500.00	5,173.79	5,497.39	5,324.54	32.82	28.64	-115.59	1,450.03	100.43	1,014.23	957.77	56.46	17.964	
5,600.00	5,264.06	5,618.07	5,440.87	33.63	29.34	-116.93	1,466.73	127.87	1,015.87	958.38	57.49	17.671	
5,700.00	5,354.33	5,703.96	5,523.44	34.45	29.85	-117.86	1,478.87	148.11	1,017.25	958.86	58.39	17.420	
5,800.00	5,444.60	5,791.70	5,608.29	35.27	30.34	-118.85	1,490.90	166.96	1,020.82	961.57	59.26	17.227	
5,900.00	5,534.88	5,916.72	5,729.34	36.09	31.04	-120.35	1,505.83	194.43	1,024.07	963.91	60.16	17.024	
6,000.00	5,625.15	5,993.49	5,803.38	36.91	31.48	-121.22	1,515.81	212.06	1,026.94	965.99	60.95	16.849	
6,100.00	5,715.42	6,078.95	5,885.87	37.74	31.97	-122.11	1,528.58	230.40	1,031.99	970.21	61.77	16.706	
6,200.00	5,805.69	6,155.11	5,959.52	38.56	32.39	-122.88	1,540.31	245.77	1,038.76	976.24	62.52	16.615	
6,300.00	5,895.96	6,275.71	6,077.08	39.38	33.02	-124.33	1,554.82	268.27	1,047.02	983.68	63.34	16.531	
6,400.00	5,986.24	6,379.82	6,178.80	40.20	33.54	-125.83	1,562.01	289.25	1,053.44	989.52	63.92	16.480	
6,500.00	6,076.51	6,510.05	6,305.60	41.03	34.22	-127.70	1,570.21	317.76	1,058.79	994.31	64.49	16.418	
6,600.00	6,166.78	6,612.07	6,403.92	41.85	34.81	-128.93	1,580.47	342.95	1,062.26	997.11	65.15	16.305	
6,700.00	6,257.05	6,684.35	6,473.27	42.67	35.23	-129.62	1,591.24	360.20	1,067.36	1,001.51	65.85	16.209	
6,800.00	6,347.33	6,790.22	6,575.07	43.50	35.86	-130.53	1,608.77	383.33	1,074.83	1,008.14	66.69	16.117	
6,900.00	6,437.60	6,948.14	6,724.34	44.32	36.90	-131.68	1,637.84	425.78	1,076.75	1,009.02	67.73	15.899	
7,000.00	6,527.87	7,162.69	6,925.23	45.15	38.34	-134.30	1,656.51	496.66	1,073.30	1,005.54	67.76	15.841	
7,100.00	6,618.14	7,222.64	6,980.83	45.98	38.68	-135.51	1,652.56	518.64	1,066.05	997.78	68.27	15.615	
7,184.78	6,694.67	7,258.00	7,013.78	46.68	38.88	-136.35	1,647.67	530.48	1,063.65	994.96	68.69	15.484	
7,200.00	6,708.41	7,258.00	7,013.78	46.80	38.88	-136.35	1,647.67	530.48	1,063.76	994.95	68.81	15.459	
7,300.00	6,798.69	7,304.46	7,057.22	47.63	39.04	-137.60	1,638.29	543.97	1,067.32	998.39	68.92	15.485	
7,400.00	6,888.96	7,348.00	7,097.92	48.45	39.19	-138.90	1,626.45	553.86	1,077.87	1,009.05	68.82	15.663	
7,500.00	6,979.23	7,348.00	7,097.92	49.28	39.19	-138.90	1,626.45	553.86	1,095.27	1,026.58	68.69	15.945	
7,600.00	7,069.50	7,399.45	7,145.58	50.11	39.26	-140.56	1,609.07	562.33	1,118.35	1,050.33	68.03	16.439	
7,692.09	7,152.63	7,437.00	7,179.86	50.87	39.31	-141.83	1,594.33	566.47	1,145.77	1,078.45	67.32	17.019	
7,700.00	7,159.79	7,437.00	7,179.86	50.93	39.31	-143.31	1,594.33	566.47	1,148.30	1,081.04	67.26	17.072	
7,750.00	7,205.70	7,437.00	7,179.86	51.32	39.31	-154.14	1,594.33	566.47	1,165.12	1,098.27	66.85	17.429	
7,800.00	7,252.52	7,463.90	7,204.15	51.66	39.32	-168.49	1,582.95	568.55	1,182.63	1,116.19	66.44	17.799	
7,850.00	7,299.89	7,484.63	7,222.75	51.96	39.32	174.90	1,573.89	569.80	1,200.57	1,134.51	66.05	18.176	
7,900.00	7,347.44	7,505.91	7,241.73	52.20	39.32	157.25	1,564.33	570.76	1,218.65	1,152.96	65.69	18.552	
7,950.00	7,394.83	7,537.95	7,270.09	52.39	39.33	140.59	1,549.45	571.69	1,236.64	1,171.26	65.38	18.914	
8,000.00	7,441.68	7,634.90	7,353.77	52.53	39.33	125.88	1,501.01	578.26	1,252.05	1,186.82	65.24	19.192	
8,050.00	7,487.65	7,672.84	7,385.53	52.62	39.33	114.94	1,480.55	581.73	1,265.92	1,200.91	65.01	19.474	
8,100.00	7,532.37	7,704.00	7,411.16	52.67	39.33	106.55	1,463.06	584.60	1,278.62	1,213.83	64.80	19.733	
8,150.00	7,575.52	7,741.66	7,441.30	52.67	39.32	100.02	1,440.75	588.05	1,290.15	1,225.53	64.62	19.966	
8,200.00	7,616.76	7,773.47	7,465.79	52.63	39.31	94.95	1,420.67	590.93	1,300.53	1,236.09	64.45	20.180	
8,250.00	7,655.77	7,809.51	7,492.39	52.55	39.29	90.95	1,396.57	594.19	1,309.65	1,245.36	64.29	20.370	
8,300.00	7,692.27	7,852.23	7,521.84	52.44	39.26	87.78	1,365.96	598.58	1,317.14	1,253.01	64.13	20.537	
8,350.00	7,725.97	7,900.55	7,552.14	52.29	39.23	85.27	1,328.78	604.35	1,322.84	1,258.89	63.95	20.686	
8,400.00	7,756.62	7,961.39	7,585.02	52.12	39.18	83.24	1,278.46	613.54	1,326.21	1,262.54	63.67	20.828	
8,450.00	7,783.98	8,008.63	7,606.26	51.92	39.15	81.72	1,237.14	622.02	1,327.29	1,263.84	63.45	20.919	
8,500.00	7,807.85	8,052.97	7,622.84	51.70	39.13	80.61	1,196.94	630.62	1,326.44	1,263.21	63.23	20.977	
8,550.00	7,828.05	8,080.61	7,631.64	51.45	39.11	79.96	1,171.33	636.10	1,323.95	1,260.78	63.16	20.960	
8,600.00	7,844.41	8,105.16	7,638.81	51.20	39.09	79.66	1,148.28	640.62	1,320.26	1,257.09	63.17	20.900	
8,650.00	7,856.82	8,129.73	7,645.38	50.93	39.07	79.68	1,124.98	644.82	1,315.42	1,252.19	63.23	20.802	
8,700.00	7,865.18	8,149.00	7,650.10	50.65	39.07	79.99	1,106.55	647.86	1,309.47	1,246.07	63.40	20.653	
8,750.00	7,869.43	8,176.05	7,656.18	50.36	39.03	80.62	1,080.48	651.71	1,302.46	1,238.87	63.59	20.481	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,776.25	7,870.00	8,187.68	7,658.62	50.21	39.02	81.05	1,069.21	653.19	1,298.41	1,234.67	63.74	20.370	
8,800.00	7,870.00	8,198.20	7,660.73	50.08	39.01	81.14	1,058.97	654.44	1,294.75	1,230.87	63.88	20.268	
8,900.00	7,870.00	8,246.58	7,669.31	49.53	38.97	81.48	1,011.60	659.09	1,281.94	1,217.50	64.44	19.894	
9,000.00	7,870.00	8,322.67	7,681.16	49.01	38.90	81.97	936.65	664.73	1,271.93	1,207.17	64.76	19.640	
9,100.00	7,870.00	8,401.34	7,691.81	48.52	38.84	82.42	858.85	669.47	1,263.72	1,198.59	65.13	19.403	
9,200.00	7,870.00	8,452.07	7,697.25	48.06	38.81	82.65	808.46	671.56	1,258.09	1,192.34	65.75	19.136	
9,274.98	7,870.00	8,485.06	7,699.71	47.73	38.79	82.76	775.56	671.73	1,256.75	1,190.50	66.25	18.969	
9,300.00	7,870.00	8,506.00	7,700.82	47.63	38.79	82.82	754.66	671.32	1,256.95	1,190.63	66.32	18.953	
9,400.00	7,870.00	8,552.00	7,702.59	47.22	38.75	82.91	708.73	669.43	1,259.72	1,192.76	66.97	18.811	
9,500.00	7,870.00	8,627.56	7,704.42	46.83	38.72	83.02	633.37	664.32	1,265.66	1,198.26	67.40	18.778	
9,600.00	7,870.00	8,744.75	7,707.25	46.48	38.74	83.18	516.45	656.82	1,271.38	1,203.69	67.69	18.781	
9,700.00	7,870.00	8,851.31	7,710.04	46.14	38.86	83.33	410.09	651.06	1,276.11	1,207.83	68.28	18.689	
9,800.00	7,870.00	9,021.03	7,715.86	45.83	39.34	83.61	240.54	647.60	1,277.04	1,207.69	69.34	18.417	
9,900.00	7,870.00	9,114.27	7,716.45	45.54	39.76	83.63	147.30	647.98	1,276.23	1,205.86	70.37	18.135	
9,935.21	7,870.00	9,144.76	7,716.65	45.44	39.92	83.64	116.81	647.92	1,276.17	1,205.40	70.76	18.035	
10,000.00	7,870.00	9,199.97	7,717.14	45.27	40.23	83.66	61.61	647.47	1,276.41	1,204.94	71.47	17.859	
10,100.00	7,870.00	9,328.50	7,719.03	45.03	41.07	83.75	-66.91	646.81	1,276.52	1,203.37	73.15	17.450	
10,200.00	7,870.00	9,457.06	7,719.14	44.82	42.12	83.73	-195.41	650.40	1,273.26	1,198.18	75.08	16.958	
10,300.00	7,870.00	9,567.59	7,718.42	44.66	43.15	83.68	-305.85	654.59	1,269.23	1,192.28	76.94	16.495	
10,400.00	7,870.00	9,676.07	7,716.71	44.56	44.26	83.57	-414.19	659.77	1,264.32	1,185.41	78.91	16.023	
10,500.00	7,870.00	9,768.28	7,714.97	44.58	45.26	83.47	-506.28	664.32	1,259.30	1,178.61	80.69	15.607	
10,600.00	7,870.00	9,844.98	7,714.45	44.82	46.11	83.43	-582.93	666.94	1,255.63	1,173.41	82.23	15.271	
10,700.00	7,870.00	9,931.00	7,714.64	45.36	47.10	83.43	-668.92	669.24	1,252.73	1,168.71	84.02	14.910	
10,772.71	7,870.00	9,982.86	7,714.66	45.91	47.69	83.42	-720.78	669.90	1,251.72	1,166.61	85.11	14.708	
10,800.00	7,870.00	9,998.17	7,714.64	46.15	47.87	83.42	-736.08	669.78	1,251.85	1,166.44	85.41	14.658	
10,900.00	7,870.00	10,080.41	7,714.47	47.09	48.82	83.43	-818.30	667.73	1,253.92	1,166.75	87.17	14.385	
11,000.00	7,870.00	10,176.81	7,713.96	48.13	49.96	83.41	-914.65	665.05	1,256.41	1,167.07	89.34	14.063	
11,100.00	7,870.00	10,281.13	7,712.78	49.22	51.24	83.37	-1,018.93	662.15	1,258.97	1,167.18	91.79	13.716	
11,200.00	7,870.00	10,400.82	7,710.69	50.37	52.76	83.29	-1,138.58	660.07	1,260.58	1,165.82	94.75	13.304	
11,300.00	7,870.00	10,503.59	7,709.47	51.55	54.11	83.23	-1,241.35	659.68	1,260.74	1,163.41	97.33	12.953	
11,400.00	7,870.00	10,595.88	7,708.66	52.76	55.34	83.20	-1,333.62	658.32	1,261.94	1,162.29	99.65	12.664	
11,500.00	7,870.00	10,708.42	7,706.73	54.00	56.87	83.12	-1,446.13	657.55	1,262.48	1,159.84	102.64	12.300	
11,600.00	7,870.00	10,804.19	7,703.66	55.27	58.21	82.98	-1,541.86	657.40	1,262.69	1,157.56	105.12	12.011	
11,700.00	7,870.00	10,887.86	7,702.01	56.56	59.38	82.91	-1,625.50	656.43	1,263.76	1,156.49	107.26	11.782	
11,800.00	7,870.00	10,975.31	7,703.31	57.88	60.60	82.98	-1,712.90	653.89	1,266.10	1,156.49	109.61	11.551	
11,900.00	7,870.00	11,081.66	7,706.48	59.21	62.11	83.14	-1,819.14	650.26	1,268.80	1,156.10	112.70	11.258	
12,000.00	7,870.00	11,190.80	7,710.80	60.57	63.68	83.35	-1,928.14	647.08	1,270.92	1,154.95	115.97	10.959	
12,100.00	7,870.00	11,327.03	7,714.64	61.94	65.69	83.52	-2,064.32	646.88	1,270.16	1,149.90	120.26	10.561	
12,200.00	7,870.00	11,423.19	7,716.36	63.33	67.14	83.59	-2,160.46	647.49	1,269.00	1,145.90	123.10	10.309	
12,300.00	7,870.00	11,524.24	7,717.71	64.74	68.67	83.65	-2,261.50	647.98	1,268.03	1,141.90	126.13	10.053	
12,400.00	7,870.00	11,625.51	7,718.72	66.16	70.21	83.69	-2,362.76	648.67	1,266.91	1,137.72	129.19	9.806	
12,500.00	7,870.00	11,715.11	7,719.03	67.59	71.59	83.70	-2,452.35	649.00	1,266.16	1,134.34	131.82	9.605	
12,534.10	7,870.00	11,744.85	7,718.99	68.09	72.05	83.70	-2,482.10	648.96	1,266.10	1,133.42	132.68	9.542	
12,600.00	7,870.00	11,802.62	7,718.81	69.04	72.93	83.69	-2,539.87	648.59	1,266.32	1,131.96	134.36	9.425	
12,700.00	7,870.00	11,916.75	7,717.94	70.51	74.70	83.65	-2,654.00	648.44	1,266.17	1,128.21	137.96	9.178	
12,798.03	7,870.00	12,008.80	7,716.62	71.95	76.14	83.59	-2,746.04	648.46	1,265.97	1,125.25	140.71	8.997	
12,800.00	7,870.00	12,010.70	7,716.59	71.98	76.17	83.59	-2,747.93	648.46	1,265.97	1,125.20	140.77	8.993	
12,900.00	7,870.00	12,115.98	7,714.72	73.47	77.82	83.50	-2,853.19	648.31	1,265.98	1,121.94	144.05	8.789	
13,000.00	7,870.00	12,223.43	7,712.74	74.96	79.52	83.41	-2,960.62	649.10	1,265.12	1,117.69	147.42	8.581	
13,100.00	7,870.00	12,319.22	7,710.66	76.47	81.05	83.31	-3,056.39	649.87	1,264.24	1,113.89	150.35	8.409	
13,150.76	7,870.00	12,361.62	7,709.51	77.24	81.72	83.25	-3,098.77	650.04	1,264.03	1,112.45	151.57	8.339	
13,200.00	7,870.00	12,399.66	7,708.62	77.99	82.33	83.21	-3,136.80	649.85	1,264.25	1,111.61	152.63	8.283	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,300.00	7,870.00	12,485.37	7,707.19	79.51	83.69	83.16	-3,222.49	648.36	1,265.81	1,110.67	155.14	8.159	
13,400.00	7,870.00	12,592.83	7,707.18	81.05	85.39	83.17	-3,329.91	645.90	1,267.76	1,109.11	158.65	7.991	
13,500.00	7,870.00	12,710.64	7,708.74	82.59	87.28	83.24	-3,447.71	644.67	1,268.28	1,105.63	162.64	7.798	
13,600.00	7,870.00	12,819.19	7,709.56	84.14	89.03	83.28	-3,556.24	643.89	1,268.61	1,102.38	166.24	7.631	
13,700.00	7,870.00	12,966.39	7,710.47	85.70	91.45	83.30	-3,703.40	647.51	1,265.60	1,094.20	171.40	7.384	
13,800.00	7,870.00	13,038.72	7,710.60	87.26	92.64	83.29	-3,775.70	649.53	1,262.42	1,088.88	173.54	7.274	
13,900.00	7,870.00	13,119.98	7,710.54	88.83	93.97	83.28	-3,856.94	650.42	1,261.01	1,085.01	176.00	7.165	
14,000.00	7,870.00	13,231.12	7,710.42	90.41	95.80	83.27	-3,968.09	651.07	1,260.12	1,080.39	179.73	7.011	
14,075.44	7,870.00	13,286.50	7,710.82	91.61	96.71	83.29	-4,023.46	651.25	1,259.56	1,078.23	181.33	6.946	
14,100.00	7,870.00	13,304.90	7,711.20	92.00	97.01	83.31	-4,041.86	651.09	1,259.62	1,077.75	181.87	6.926	
14,200.00	7,870.00	13,401.69	7,714.10	93.59	98.59	83.44	-4,138.59	649.69	1,260.38	1,075.31	185.06	6.810	
14,300.00	7,870.00	13,506.92	7,717.46	95.18	100.32	83.60	-4,243.75	648.38	1,260.91	1,072.25	188.67	6.683	
14,400.00	7,870.00	13,616.09	7,720.35	96.79	102.13	83.73	-4,352.89	647.52	1,261.08	1,068.64	192.44	6.553	
14,500.00	7,870.00	13,739.75	7,723.49	98.39	104.19	83.87	-4,476.50	648.49	1,259.67	1,062.82	196.85	6.399	
14,600.00	7,870.00	13,845.97	7,725.95	100.00	105.97	83.97	-4,582.67	650.65	1,257.06	1,056.57	200.49	6.270	
14,700.00	7,870.00	13,952.35	7,727.58	101.62	107.75	84.03	-4,689.01	653.33	1,254.06	1,049.94	204.12	6.144	
14,800.00	7,870.00	14,012.13	7,728.20	103.24	108.75	84.05	-4,748.78	653.85	1,252.61	1,046.91	205.70	6.089	
14,900.00	7,870.00	14,150.21	7,729.58	104.87	111.07	84.10	-4,886.83	655.62	1,250.84	1,040.10	210.74	5.935	
15,000.00	7,870.00	14,231.44	7,730.27	106.50	112.44	84.13	-4,968.04	657.17	1,248.51	1,035.21	213.30	5.853	
15,098.33	7,870.00	14,309.78	7,730.73	108.10	113.76	84.15	-5,046.37	657.59	1,247.62	1,031.94	215.68	5.784	
15,100.00	7,870.00	14,310.90	7,730.74	108.13	113.78	84.15	-5,047.49	657.58	1,247.62	1,031.91	215.71	5.784	
15,200.00	7,870.00	14,386.00	7,730.83	109.77	115.03	84.15	-5,122.58	656.16	1,249.04	1,031.18	217.86	5.733	
15,300.00	7,870.00	14,470.50	7,730.71	111.41	116.43	84.16	-5,207.03	653.20	1,252.12	1,031.71	220.41	5.681	
15,400.00	7,870.00	14,593.72	7,730.57	113.05	118.48	84.17	-5,330.20	649.82	1,254.53	1,029.60	224.93	5.577	
15,500.00	7,870.00	14,709.44	7,730.49	114.70	120.43	84.17	-5,445.91	648.72	1,255.12	1,026.08	229.05	5.480	
15,600.00	7,870.00	14,817.04	7,730.18	116.35	122.24	84.15	-5,553.51	648.51	1,255.01	1,022.24	232.76	5.392	
15,700.00	7,870.00	14,933.37	7,729.64	118.00	124.21	84.12	-5,669.84	649.38	1,253.98	1,017.12	236.86	5.294	
15,800.00	7,870.00	15,039.68	7,729.14	119.66	126.02	84.09	-5,776.12	651.62	1,251.57	1,011.07	240.51	5.204	
15,900.00	7,870.00	15,118.29	7,728.69	121.32	127.36	84.06	-5,854.72	652.50	1,250.18	1,007.27	242.91	5.147	
16,000.00	7,870.00	15,223.97	7,728.40	122.98	129.16	84.05	-5,960.39	652.36	1,250.03	1,003.48	246.55	5.070	
16,100.00	7,870.00	15,357.59	7,731.10	124.65	131.45	84.16	-6,093.95	655.09	1,247.38	995.90	251.48	4.960	
16,200.00	7,870.00	15,448.06	7,732.98	126.32	133.00	84.23	-6,184.37	657.53	1,244.14	989.61	254.53	4.888	
16,300.00	7,870.00	15,548.82	7,734.94	127.99	134.73	84.31	-6,285.09	659.92	1,241.25	983.23	258.02	4.811	
16,400.00	7,870.00	15,645.77	7,736.94	129.66	136.40	84.39	-6,381.98	662.38	1,238.19	976.84	261.35	4.738	
16,500.00	7,870.00	15,730.52	7,738.69	131.33	137.85	84.46	-6,466.71	663.75	1,236.04	971.92	264.12	4.680	
16,598.80	7,870.00	15,810.71	7,740.34	132.99	139.22	84.53	-6,546.88	663.99	1,235.23	968.59	266.65	4.632	
16,600.00	7,870.00	15,811.63	7,740.36	133.01	139.24	84.53	-6,547.79	663.98	1,235.23	968.56	266.68	4.632	
16,700.00	7,870.00	15,887.52	7,741.83	134.69	140.53	84.61	-6,623.66	662.84	1,236.22	967.32	268.89	4.597	
16,800.00	7,870.00	15,964.00	7,743.28	136.37	141.82	84.68	-6,700.08	660.07	1,239.27	968.22	271.05	4.572	
16,900.00	7,870.00	16,082.54	7,744.82	138.06	143.82	84.77	-6,818.52	655.67	1,242.53	967.01	275.53	4.510	
17,000.00	7,870.00	16,207.54	7,745.45	139.74	145.95	84.81	-6,943.49	653.30	1,244.07	963.82	280.25	4.439	
17,100.00	7,870.00	16,310.98	7,745.92	141.43	147.72	84.83	-7,046.94	652.89	1,244.07	960.22	283.86	4.383	
17,200.00	7,870.00	16,402.65	7,746.17	143.12	149.28	84.84	-7,138.60	652.19	1,244.48	957.61	286.87	4.338	
17,300.00	7,870.00	16,507.24	7,746.48	144.81	151.07	84.86	-7,243.18	651.16	1,245.09	954.56	290.53	4.286	
17,400.00	7,870.00	16,606.13	7,746.60	146.50	152.77	84.87	-7,342.07	650.30	1,245.61	951.71	293.91	4.238	
17,500.00	7,870.00	16,711.80	7,746.87	148.19	154.58	84.88	-7,447.74	649.71	1,245.81	948.18	297.63	4.186	
17,563.63	7,870.00	16,776.47	7,747.07	149.27	155.69	84.89	-7,512.41	649.48	1,245.80	945.93	299.87	4.155	
17,600.00	7,870.00	16,809.10	7,747.17	149.89	156.25	84.90	-7,545.04	649.32	1,245.84	944.91	300.93	4.140	
17,700.00	7,870.00	16,904.62	7,747.42	151.59	157.89	84.91	-7,640.55	648.50	1,246.33	942.19	304.15	4.098	
17,800.00	7,870.00	17,003.72	7,747.42	153.29	159.59	84.91	-7,739.65	647.53	1,246.97	939.43	307.54	4.055	
17,900.00	7,870.00	17,103.79	7,746.94	154.99	161.31	84.89	-7,839.72	646.55	1,247.65	936.69	310.96	4.012	
18,000.00	7,870.00	17,202.20	7,745.90	156.69	163.00	84.85	-7,938.11	645.60	1,248.37	934.07	314.29	3.972	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	7,870.00	17,311.51	7,744.06	158.39	164.88	84.77	-8,047.40	644.89	1,248.83	930.68	318.15	3.925	
18,200.00	7,870.00	17,390.00	7,743.33	160.09	166.23	84.74	-8,125.88	643.76	1,249.96	929.50	320.46	3.901	
18,300.00	7,870.00	17,499.71	7,743.33	161.80	168.11	84.74	-8,235.58	641.95	1,251.25	926.83	324.42	3.857	
18,400.00	7,870.00	17,591.70	7,743.58	163.51	169.69	84.76	-8,327.56	640.33	1,252.64	925.19	327.45	3.825	
18,455.45	7,870.00	17,647.15	7,743.68	164.45	170.64	84.77	-8,382.99	639.22	1,253.54	924.18	329.36	3.806	ES, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-50.43	786.15	-951.14	1,234.03				
100.00	100.00	81.62	81.62	0.13	0.14	-50.42	786.34	-951.25	1,234.20	1,233.93	0.27	4,553.578	
200.00	200.00	174.37	174.36	0.49	0.29	-50.41	787.04	-951.65	1,235.01	1,234.23	0.78	1,575.511	
300.00	300.00	267.10	267.08	0.85	0.45	-50.39	788.23	-952.35	1,236.41	1,235.11	1.30	953.558	
400.00	400.00	361.45	361.42	1.21	0.69	-50.36	789.92	-953.34	1,238.37	1,236.47	1.90	653.071	
500.00	500.00	457.79	457.73	1.57	1.03	-50.32	791.88	-954.60	1,240.66	1,238.06	2.60	477.090	
600.00	600.00	554.12	554.02	1.93	1.38	-50.29	794.00	-956.07	1,243.25	1,239.94	3.30	376.309	
700.00	700.00	673.31	673.13	2.29	1.81	-50.16	797.86	-956.28	1,245.50	1,241.42	4.09	304.765	
800.00	800.00	805.73	805.04	2.64	2.29	-49.64	806.48	-948.80	1,245.36	1,240.44	4.92	252.916	
900.00	900.00	971.86	969.06	3.00	2.93	-48.48	821.31	-927.51	1,241.53	1,235.61	5.92	209.799	
1,000.00	1,000.00	1,152.32	1,144.32	3.36	3.74	-46.66	838.47	-888.44	1,231.58	1,224.53	7.05	174.664	
1,100.00	1,100.00	1,251.09	1,238.84	3.72	4.25	-45.44	848.59	-861.62	1,218.71	1,210.80	7.90	154.195	
1,200.00	1,200.00	1,323.87	1,308.22	4.08	4.65	-44.46	857.42	-841.50	1,207.37	1,198.71	8.66	139.407	
1,300.00	1,300.00	1,406.03	1,386.87	4.44	5.11	-43.38	868.30	-820.40	1,198.65	1,189.17	9.48	126.444	
1,400.00	1,399.98	1,531.76	1,506.95	4.79	5.84	-84.89	884.55	-786.85	1,189.68	1,179.14	10.54	112.867	
1,500.00	1,499.84	1,614.00	1,584.92	5.15	6.34	-84.06	895.56	-763.13	1,179.83	1,168.42	11.40	103.475	
1,600.00	1,599.45	1,684.13	1,651.48	5.51	6.77	-83.45	906.04	-743.70	1,171.93	1,159.73	12.20	96.053	
1,700.00	1,698.70	1,764.02	1,727.67	5.87	7.25	-82.86	918.89	-723.38	1,166.22	1,153.16	13.06	89.311	
1,800.00	1,797.47	1,869.57	1,828.08	6.24	7.90	-82.17	936.69	-696.16	1,160.75	1,146.66	14.08	82.415	
1,900.00	1,895.62	1,988.20	1,940.79	6.63	8.64	-81.58	955.62	-664.37	1,153.63	1,138.42	15.21	75.841	
2,000.00	1,993.06	2,105.00	2,052.17	7.04	9.36	-81.32	971.31	-632.92	1,143.98	1,127.65	16.33	70.060	
2,100.00	2,089.64	2,194.37	2,137.69	7.48	9.90	-81.38	983.07	-609.79	1,134.31	1,117.01	17.31	65.546	
2,200.00	2,185.27	2,295.28	2,234.29	7.94	10.51	-81.61	995.92	-583.58	1,123.76	1,105.39	18.37	61.178	
2,300.00	2,279.82	2,394.79	2,329.94	8.45	11.10	-82.10	1,008.56	-559.25	1,113.64	1,094.20	19.44	57.272	
2,400.00	2,373.17	2,491.87	2,423.38	8.99	11.67	-82.80	1,019.76	-535.42	1,102.14	1,081.60	20.53	53.679	
2,500.00	2,465.21	2,576.43	2,505.16	9.58	12.14	-83.67	1,029.58	-516.29	1,091.57	1,069.99	21.58	50.583	
2,574.08	2,532.50	2,633.83	2,560.91	10.04	12.45	-84.39	1,036.25	-504.34	1,084.51	1,062.17	22.34	48.547	
2,600.00	2,555.89	2,652.90	2,579.48	10.21	12.55	-84.61	1,038.48	-500.66	1,082.33	1,059.72	22.60	47.885	
2,700.00	2,646.16	2,758.50	2,682.81	10.88	13.08	-85.94	1,049.92	-482.12	1,074.68	1,050.92	23.76	45.231	
2,800.00	2,736.44	2,864.78	2,787.14	11.57	13.59	-87.41	1,058.82	-463.94	1,066.06	1,041.15	24.91	42.800	
2,900.00	2,826.71	2,971.99	2,892.22	12.27	14.11	-88.88	1,067.38	-444.44	1,057.06	1,030.98	26.08	40.537	
3,000.00	2,916.98	3,065.76	2,983.70	13.00	14.60	-90.09	1,076.11	-425.85	1,048.43	1,021.20	27.23	38.508	
3,100.00	3,007.25	3,165.85	3,080.89	13.73	15.14	-91.28	1,087.11	-404.59	1,040.43	1,012.00	28.44	36.589	
3,200.00	3,097.52	3,274.32	3,185.99	14.48	15.74	-92.55	1,098.84	-380.49	1,032.05	1,002.35	29.69	34.759	
3,300.00	3,187.80	3,370.46	3,278.93	15.23	16.28	-93.66	1,109.33	-358.25	1,023.48	992.57	30.91	33.115	
3,400.00	3,278.07	3,453.02	3,358.73	15.99	16.75	-94.61	1,119.09	-339.42	1,016.16	984.09	32.07	31.686	
3,500.00	3,368.34	3,537.16	3,440.16	16.76	17.21	-95.58	1,129.97	-321.27	1,010.83	977.60	33.23	30.418	
3,600.00	3,458.61	3,632.07	3,532.15	17.54	17.74	-96.69	1,142.54	-301.60	1,006.77	972.34	34.43	29.244	
3,700.00	3,548.89	3,743.62	3,640.48	18.32	18.34	-98.09	1,156.01	-278.66	1,002.64	966.97	35.67	28.109	
3,800.00	3,639.16	3,857.22	3,750.84	19.10	18.95	-99.58	1,167.57	-254.32	997.19	960.31	36.88	27.036	
3,900.00	3,729.43	3,950.76	3,841.67	19.89	19.46	-100.83	1,176.77	-233.94	991.82	953.80	38.01	26.091	
4,000.00	3,819.70	4,038.21	3,926.63	20.69	19.93	-102.01	1,185.76	-215.28	987.60	948.49	39.11	25.252	
4,100.00	3,909.98	4,129.17	4,015.13	21.48	20.42	-103.25	1,195.40	-196.65	984.79	944.59	40.20	24.499	
4,200.00	4,000.25	4,232.93	4,115.67	22.28	20.99	-104.55	1,208.19	-174.42	982.56	941.22	41.35	23.764	
4,300.00	4,090.52	4,345.81	4,224.50	23.08	21.64	-105.88	1,222.76	-148.24	979.48	936.95	42.54	23.027	
4,400.00	4,180.79	4,451.92	4,326.96	23.88	22.25	-107.22	1,234.72	-123.38	975.94	932.28	43.66	22.353	
4,500.00	4,271.06	4,583.81	4,453.26	24.69	23.05	-108.74	1,250.80	-89.00	970.96	926.12	44.85	21.650	
4,600.00	4,361.34	4,699.15	4,561.77	25.49	23.84	-109.81	1,267.49	-53.73	962.98	916.92	46.07	20.903	
4,700.00	4,451.61	4,780.76	4,638.26	26.30	24.41	-110.51	1,280.34	-28.33	955.37	908.13	47.24	20.225	
4,800.00	4,541.88	4,842.63	4,696.90	27.11	24.81	-111.10	1,290.02	-11.15	951.02	902.73	48.29	19.695	
4,900.00	4,632.15	4,922.08	4,772.95	27.92	25.30	-111.94	1,302.37	8.24	950.03	900.72	49.31	19.265	
5,000.00	4,722.43	5,031.09	4,877.42	28.74	25.96	-113.09	1,319.46	34.26	949.98	899.55	50.42	18.839	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,125.38	4,967.38	29.55	26.54	-114.02	1,335.18	57.73	949.56	898.07	51.49	18.440	
5,109.16	4,820.96	5,134.19	4,975.78	29.62	26.60	-114.10	1,336.67	59.91	949.56	897.97	51.59	18.406	CC
5,200.00	4,902.97	5,219.60	5,057.72	30.37	27.11	-115.04	1,349.44	80.34	949.82	897.32	52.50	18.091	
5,300.00	4,993.24	5,303.19	5,138.46	31.18	27.59	-116.07	1,360.44	98.94	951.51	898.12	53.39	17.821	
5,400.00	5,083.51	5,394.99	5,227.63	32.00	28.08	-117.30	1,371.16	117.96	954.73	900.49	54.23	17.604	
5,500.00	5,173.79	5,514.53	5,343.93	32.82	28.72	-119.00	1,383.29	142.76	958.17	903.08	55.09	17.393	
5,600.00	5,264.06	5,625.56	5,451.08	33.63	29.36	-120.48	1,394.96	169.44	958.88	902.96	55.93	17.145	
5,700.00	5,354.33	5,710.47	5,532.77	34.45	29.86	-121.49	1,406.13	189.69	960.92	904.17	56.75	16.932	
5,800.00	5,444.60	5,785.47	5,605.13	35.27	30.28	-122.35	1,416.54	206.47	965.02	907.51	57.51	16.779	
5,900.00	5,534.88	5,858.88	5,676.58	36.09	30.67	-123.28	1,425.69	220.54	972.31	914.13	58.18	16.713	
6,000.00	5,625.15	5,967.61	5,782.88	36.91	31.23	-124.73	1,437.91	239.87	981.41	922.48	58.92	16.655	
6,100.00	5,715.42	6,075.07	5,887.35	37.74	31.80	-126.11	1,450.09	261.88	988.21	928.54	59.66	16.563	
6,200.00	5,805.69	6,185.37	5,994.66	38.56	32.38	-127.54	1,461.90	284.46	995.56	935.19	60.37	16.491	
6,300.00	5,895.96	6,308.60	6,114.30	39.38	33.06	-129.22	1,472.76	311.92	1,001.52	940.50	61.02	16.413	
6,400.00	5,986.24	6,437.21	6,237.08	40.20	33.86	-130.56	1,490.96	345.45	1,004.26	942.42	61.84	16.240	
6,500.00	6,076.51	6,516.67	6,312.13	41.03	34.38	-131.14	1,506.18	366.65	1,007.03	944.34	62.69	16.065	
6,600.00	6,166.78	6,596.84	6,388.37	41.85	34.88	-131.75	1,521.42	386.14	1,012.28	948.78	63.49	15.943	
6,700.00	6,257.05	6,702.32	6,489.45	42.67	35.52	-132.70	1,538.61	410.92	1,018.62	954.32	64.30	15.842	
6,800.00	6,347.33	6,841.60	6,622.56	43.50	36.39	-134.14	1,557.62	447.19	1,022.71	957.67	65.04	15.725	
6,900.00	6,437.60	6,954.25	6,729.00	44.32	37.14	-135.24	1,573.84	480.33	1,023.49	957.74	65.75	15.566	
7,000.00	6,527.87	7,032.27	6,802.73	45.15	37.66	-135.95	1,586.07	502.67	1,025.44	958.96	66.47	15.427	
7,100.00	6,618.14	7,110.32	6,877.38	45.98	38.14	-136.79	1,595.79	523.28	1,030.04	962.97	67.08	15.356	
7,200.00	6,708.41	7,202.81	6,966.47	46.80	38.68	-138.06	1,602.25	547.21	1,036.04	968.53	67.51	15.346	
7,300.00	6,798.69	7,291.14	7,051.79	47.63	39.16	-139.46	1,604.51	569.94	1,043.16	975.34	67.81	15.382	
7,400.00	6,888.96	7,376.06	7,134.01	48.45	39.59	-140.93	1,604.00	591.19	1,052.09	984.07	68.02	15.466	
7,500.00	6,979.23	7,464.31	7,218.92	49.28	39.99	-142.82	1,595.81	613.60	1,062.68	994.67	68.01	15.625	
7,600.00	7,069.50	7,564.39	7,313.35	50.11	40.40	-145.43	1,576.25	640.20	1,075.10	1,007.38	67.72	15.876	
7,692.09	7,152.63	7,692.25	7,428.79	50.87	40.90	-149.33	1,538.76	680.13	1,086.06	1,018.98	67.08	16.192	
7,700.00	7,159.79	7,702.96	7,438.17	50.93	40.94	-150.98	1,535.13	683.83	1,086.94	1,019.92	67.02	16.218	
7,750.00	7,205.70	7,739.33	7,469.76	51.32	41.08	-161.68	1,522.30	696.48	1,092.32	1,025.37	66.94	16.317	
7,800.00	7,252.52	7,775.68	7,501.01	51.66	41.23	-174.92	1,508.67	709.08	1,097.42	1,030.53	66.89	16.406	
7,850.00	7,299.89	7,808.81	7,529.19	51.96	41.35	169.56	1,495.50	720.51	1,102.09	1,035.22	66.87	16.480	
7,900.00	7,347.44	7,838.29	7,553.84	52.20	41.45	153.14	1,482.79	730.50	1,106.42	1,039.54	66.87	16.546	
7,950.00	7,394.83	7,867.93	7,578.15	52.39	41.55	137.83	1,469.00	740.33	1,110.31	1,043.46	66.86	16.608	
8,000.00	7,441.68	7,883.00	7,590.33	52.53	41.61	125.35	1,461.61	745.25	1,113.84	1,046.97	66.86	16.659	
8,050.00	7,487.65	7,917.70	7,617.86	52.62	41.69	115.34	1,443.51	756.14	1,116.75	1,049.94	66.81	16.715	
8,100.00	7,532.37	7,941.10	7,635.99	52.67	41.74	107.88	1,430.42	763.05	1,119.38	1,052.61	66.77	16.764	
8,150.00	7,575.52	7,972.00	7,659.34	52.67	41.82	102.15	1,412.10	771.61	1,121.61	1,054.90	66.71	16.812	
8,200.00	7,616.76	7,972.00	7,659.34	52.63	41.82	97.99	1,412.10	771.61	1,123.47	1,056.78	66.70	16.845	
8,250.00	7,655.77	8,009.44	7,686.67	52.55	41.87	94.61	1,388.32	781.03	1,124.45	1,057.80	66.65	16.872	
8,300.00	7,692.27	8,031.69	7,702.37	52.44	41.89	92.09	1,373.39	786.09	1,125.15	1,058.52	66.63	16.886	
8,350.00	7,725.97	8,061.00	7,722.40	52.29	41.93	90.20	1,352.86	792.13	1,125.40	1,058.77	66.63	16.890	
8,388.74	7,750.00	8,061.00	7,722.40	52.16	41.93	89.01	1,352.86	792.13	1,125.26	1,058.55	66.71	16.868	
8,400.00	7,756.62	8,061.00	7,722.40	52.12	41.93	88.70	1,352.86	792.13	1,125.27	1,058.53	66.74	16.860	
8,450.00	7,783.98	8,091.13	7,742.41	51.92	41.93	87.75	1,330.95	797.31	1,124.50	1,057.66	66.84	16.824	
8,500.00	7,807.85	8,108.79	7,753.97	51.70	41.93	87.06	1,317.81	799.74	1,123.64	1,056.60	67.04	16.761	
8,550.00	7,828.05	8,150.00	7,780.38	51.45	41.93	87.05	1,286.43	803.63	1,123.24	1,056.03	67.21	16.712	
8,600.00	7,844.41	8,150.00	7,780.38	51.20	41.93	86.66	1,286.43	803.63	1,121.33	1,053.69	67.64	16.578	
8,650.00	7,856.82	8,165.08	7,789.78	50.93	41.91	86.72	1,274.68	804.53	1,119.82	1,051.73	68.09	16.445	
8,700.00	7,865.18	8,190.21	7,804.92	50.65	41.88	87.22	1,254.66	805.76	1,118.01	1,049.46	68.55	16.310	
8,750.00	7,869.43	8,215.10	7,819.26	50.36	41.86	87.92	1,234.33	806.62	1,115.90	1,046.85	69.05	16.161	
8,776.25	7,870.00	8,239.00	7,832.39	50.21	41.84	88.68	1,214.37	807.12	1,114.79	1,045.57	69.22	16.105	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	8,240.26	7,833.06	50.08	41.84	88.72	1,213.31	807.14	1,113.75	1,044.17	69.58	16.007	
8,900.00	7,870.00	8,317.65	7,870.52	49.53	41.73	90.64	1,145.64	807.94	1,111.87	1,041.63	70.24	15.830	
8,922.53	7,870.00	8,336.03	7,878.21	49.41	41.70	91.04	1,128.95	808.04	1,111.81	1,041.46	70.35	15.804	
9,000.00	7,870.00	8,401.72	7,900.35	49.01	41.60	92.18	1,067.15	807.97	1,112.41	1,041.83	70.58	15.761	
9,100.00	7,870.00	8,485.75	7,918.88	48.52	41.47	93.13	985.23	806.75	1,114.61	1,043.83	70.77	15.749	
9,200.00	7,870.00	8,602.25	7,935.64	48.06	41.33	93.99	870.00	804.31	1,117.33	1,046.77	70.57	15.833	
9,300.00	7,870.00	8,691.21	7,941.71	47.63	41.25	94.29	781.29	802.31	1,119.71	1,048.95	70.76	15.823	
9,400.00	7,870.00	8,821.65	7,944.31	47.22	41.24	94.42	650.89	801.00	1,120.38	1,049.60	70.77	15.831	
9,500.00	7,870.00	8,936.66	7,941.02	46.83	41.33	94.25	535.95	800.92	1,119.92	1,048.80	71.12	15.746	
9,600.00	7,870.00	9,035.11	7,936.28	46.48	41.50	94.01	437.61	801.69	1,118.46	1,046.77	71.69	15.601	
9,652.95	7,870.00	9,074.20	7,934.93	46.29	41.57	93.95	398.54	801.74	1,118.10	1,046.06	72.05	15.519	
9,700.00	7,870.00	9,107.64	7,934.12	46.14	41.65	93.90	365.12	801.36	1,118.39	1,046.04	72.35	15.458	
9,800.00	7,870.00	9,211.19	7,932.67	45.83	41.93	93.82	261.59	799.36	1,119.91	1,046.70	73.21	15.297	
9,900.00	7,870.00	9,300.08	7,932.15	45.54	42.23	93.79	172.72	797.86	1,121.22	1,047.08	74.14	15.124	
10,000.00	7,870.00	9,440.00	7,932.93	45.27	42.87	93.83	32.82	796.54	1,122.07	1,046.31	75.76	14.811	
10,100.00	7,870.00	9,548.43	7,932.93	45.03	43.52	93.84	-75.57	799.39	1,119.03	1,041.75	77.28	14.481	
10,200.00	7,870.00	9,661.75	7,933.16	44.82	44.31	93.86	-188.85	801.94	1,116.51	1,037.45	79.06	14.122	
10,300.00	7,870.00	9,723.22	7,934.77	44.66	44.77	93.95	-250.28	803.06	1,114.57	1,034.54	80.04	13.926	
10,304.46	7,870.00	9,725.91	7,934.84	44.65	44.79	93.95	-252.97	803.06	1,114.57	1,034.49	80.08	13.918	
10,400.00	7,870.00	9,790.62	7,936.18	44.56	45.29	94.02	-317.66	801.89	1,116.04	1,034.93	81.11	13.760	
10,500.00	7,870.00	9,878.26	7,937.22	44.58	46.00	94.06	-405.22	798.35	1,119.76	1,037.15	82.61	13.554	
10,600.00	7,870.00	9,974.81	7,937.35	44.82	46.82	94.05	-501.69	794.57	1,123.34	1,038.97	84.38	13.314	
10,700.00	7,870.00	10,054.96	7,939.80	45.36	47.55	94.16	-581.69	790.39	1,128.42	1,042.58	85.84	13.146	
10,800.00	7,870.00	10,153.66	7,944.56	46.15	48.48	94.38	-680.07	784.02	1,134.88	1,047.01	87.87	12.916	
10,900.00	7,870.00	10,270.49	7,947.53	47.09	49.66	94.51	-796.70	777.90	1,139.93	1,049.44	90.48	12.598	
11,000.00	7,870.00	10,395.12	7,949.34	48.13	51.02	94.58	-921.24	773.65	1,143.04	1,049.57	93.47	12.229	
11,100.00	7,870.00	10,475.29	7,952.39	49.22	51.93	94.73	-1,001.30	770.83	1,146.47	1,051.29	95.19	12.044	
11,200.00	7,870.00	10,622.59	7,960.31	50.37	53.70	95.11	-1,148.34	768.09	1,148.42	1,049.18	99.23	11.573	
11,300.00	7,870.00	10,815.46	7,966.05	51.55	56.24	95.44	-1,340.86	776.53	1,143.63	1,038.69	104.94	10.898	
11,400.00	7,870.00	10,884.00	7,966.43	52.76	57.18	95.48	-1,409.28	780.29	1,137.58	1,031.04	106.54	10.678	
11,500.00	7,870.00	10,980.48	7,966.36	54.00	58.50	95.49	-1,505.68	784.05	1,133.32	1,024.23	109.09	10.389	
11,600.00	7,870.00	11,081.85	7,966.23	55.27	59.92	95.51	-1,606.93	788.98	1,128.13	1,016.26	111.87	10.085	
11,700.00	7,870.00	11,166.36	7,966.16	56.56	61.12	95.53	-1,691.36	792.68	1,123.45	1,009.40	114.05	9.850	
11,800.00	7,870.00	11,241.00	7,966.09	57.88	62.17	95.53	-1,765.99	794.04	1,121.16	1,005.31	115.85	9.678	
11,817.50	7,870.00	11,241.00	7,966.09	58.11	62.17	95.53	-1,765.99	794.04	1,121.02	1,005.39	115.64	9.694	
11,900.00	7,870.00	11,293.67	7,966.02	59.21	62.90	95.53	-1,818.65	793.28	1,121.99	1,005.30	116.69	9.615	
12,000.00	7,870.00	11,372.24	7,965.89	60.57	63.98	95.50	-1,897.14	789.64	1,126.11	1,007.56	118.55	9.499	
12,100.00	7,870.00	11,552.85	7,965.64	61.94	66.55	95.48	-2,077.66	786.47	1,127.84	1,003.02	124.81	9.036	
12,200.00	7,870.00	11,653.13	7,965.30	63.33	68.04	95.48	-2,177.90	789.37	1,124.59	996.85	127.74	8.803	
12,300.00	7,870.00	11,757.31	7,965.09	64.74	69.60	95.48	-2,282.05	791.48	1,122.23	991.36	130.87	8.575	
12,400.00	7,870.00	11,873.58	7,963.85	66.16	71.36	95.44	-2,398.25	795.34	1,118.48	983.95	134.53	8.314	
12,500.00	7,870.00	11,972.06	7,962.00	67.59	72.88	95.36	-2,496.62	799.44	1,113.83	976.35	137.48	8.102	
12,600.00	7,870.00	12,043.00	7,960.66	69.04	73.97	95.30	-2,567.53	801.29	1,110.75	971.51	139.24	7.977	
12,658.14	7,870.00	12,082.14	7,959.92	69.89	74.57	95.27	-2,606.66	801.46	1,110.22	970.09	140.13	7.923	
12,700.00	7,870.00	12,109.44	7,959.41	70.51	74.98	95.24	-2,633.95	801.14	1,110.49	969.78	140.71	7.892	
12,800.00	7,870.00	12,237.90	7,956.94	71.98	76.94	95.11	-2,762.38	799.45	1,111.51	966.44	145.07	7.662	
12,900.00	7,870.00	12,328.82	7,955.26	73.47	78.34	95.02	-2,853.28	799.43	1,111.00	963.28	147.72	7.521	
13,000.00	7,870.00	12,440.29	7,953.31	74.96	80.08	94.92	-2,964.73	799.44	1,110.55	959.20	151.34	7.338	
13,100.00	7,870.00	12,565.73	7,952.91	76.47	82.06	94.92	-3,090.13	802.64	1,107.56	951.93	155.64	7.116	
13,200.00	7,870.00	12,660.67	7,952.59	77.99	83.57	94.92	-3,185.01	805.74	1,103.95	945.38	158.57	6.962	
13,300.00	7,870.00	12,764.01	7,952.22	79.51	85.23	94.91	-3,288.30	808.91	1,100.52	938.63	161.89	6.798	
13,400.00	7,870.00	12,844.00	7,952.09	81.05	86.52	94.92	-3,368.26	811.28	1,097.34	933.20	164.14	6.685	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,484.30	7,870.00	12,908.75	7,952.04	82.35	87.55	94.92	-3,433.00	812.06	1,096.16	930.30	165.86	6.609	
13,500.00	7,870.00	12,919.08	7,952.03	82.59	87.71	94.92	-3,443.33	812.00	1,096.19	930.11	166.09	6.600	
13,600.00	7,870.00	12,987.97	7,951.94	84.14	88.80	94.91	-3,512.20	810.42	1,098.12	930.50	167.62	6.551	
13,700.00	7,870.00	13,076.79	7,951.76	85.70	90.19	94.88	-3,600.93	806.26	1,102.37	932.19	170.18	6.478	
13,800.00	7,870.00	13,184.79	7,951.52	87.26	91.89	94.85	-3,708.82	801.60	1,106.32	932.51	173.82	6.365	
13,900.00	7,870.00	13,282.91	7,951.40	88.83	93.44	94.83	-3,806.86	797.70	1,109.93	933.01	176.92	6.274	
14,000.00	7,870.00	13,390.55	7,951.10	90.41	95.15	94.80	-3,914.42	793.60	1,113.37	932.81	180.56	6.166	
14,100.00	7,870.00	13,487.34	7,950.84	92.00	96.69	94.77	-4,011.14	789.99	1,116.72	933.11	183.61	6.082	
14,200.00	7,870.00	13,593.99	7,950.70	93.59	98.40	94.75	-4,117.73	786.40	1,119.72	932.50	187.22	5.981	
14,300.00	7,870.00	13,707.97	7,950.99	95.18	100.24	94.75	-4,231.67	783.39	1,122.07	930.83	191.24	5.867	
14,400.00	7,870.00	13,869.75	7,953.48	96.79	102.91	94.89	-4,393.38	785.94	1,119.96	922.34	197.62	5.667	
14,500.00	7,870.00	13,980.96	7,955.77	98.39	104.78	95.03	-4,504.47	790.49	1,115.76	914.30	201.46	5.538	
14,600.00	7,870.00	14,067.68	7,958.18	100.00	106.23	95.18	-4,591.06	794.55	1,111.04	906.86	204.18	5.441	
14,700.00	7,870.00	14,151.89	7,959.63	101.62	107.64	95.26	-4,675.22	796.96	1,107.99	901.25	206.75	5.359	
14,800.00	7,870.00	14,238.67	7,961.07	103.24	109.09	95.35	-4,761.98	798.38	1,106.18	896.78	209.41	5.282	
14,895.71	7,870.00	14,320.94	7,962.44	104.80	110.46	95.42	-4,844.24	798.75	1,105.59	893.70	211.88	5.218	
14,900.00	7,870.00	14,324.60	7,962.50	104.87	110.52	95.42	-4,847.90	798.74	1,105.59	893.60	211.99	5.215	
15,000.00	7,870.00	14,407.65	7,963.88	106.50	111.89	95.49	-4,930.93	797.95	1,106.37	891.99	214.38	5.161	
15,100.00	7,870.00	14,518.13	7,965.70	108.13	113.72	95.58	-5,041.37	795.85	1,108.14	889.85	218.29	5.077	
15,200.00	7,870.00	14,632.80	7,967.37	109.77	115.63	95.67	-5,156.03	795.81	1,107.95	885.54	222.41	4.982	
15,300.00	7,870.00	14,728.50	7,968.76	111.41	117.24	95.74	-5,251.72	796.07	1,107.49	881.96	225.53	4.911	
15,358.47	7,870.00	14,783.78	7,969.54	112.37	118.16	95.78	-5,306.99	796.05	1,107.40	880.09	227.31	4.872	
15,400.00	7,870.00	14,824.97	7,970.13	113.05	118.85	95.81	-5,348.18	795.94	1,107.43	878.75	228.68	4.843	
15,500.00	7,870.00	14,928.40	7,971.70	114.70	120.59	95.89	-5,451.59	795.95	1,107.23	875.02	232.22	4.768	
15,600.00	7,870.00	15,036.12	7,973.25	116.35	122.40	95.98	-5,559.30	796.18	1,106.85	870.87	235.98	4.690	
15,700.00	7,870.00	15,131.98	7,973.97	118.00	124.01	96.02	-5,655.15	797.04	1,105.71	866.59	239.12	4.624	
15,741.74	7,870.00	15,167.09	7,973.46	118.70	124.61	95.99	-5,690.26	796.98	1,105.59	865.42	240.17	4.603	
15,800.00	7,870.00	15,214.28	7,972.61	119.66	125.40	95.95	-5,737.44	796.49	1,105.88	864.37	241.51	4.579	
15,900.00	7,870.00	15,304.44	7,970.99	121.32	126.91	95.86	-5,827.57	794.51	1,107.52	863.22	244.30	4.533	
16,000.00	7,870.00	15,401.10	7,968.64	122.98	128.52	95.72	-5,924.16	791.99	1,109.54	862.07	247.47	4.484	
16,100.00	7,870.00	15,491.88	7,967.85	124.65	130.04	95.67	-6,014.90	789.29	1,112.08	861.80	250.28	4.443	
16,200.00	7,870.00	15,578.74	7,967.97	126.32	131.48	95.66	-6,101.69	785.88	1,115.66	862.84	252.82	4.413	
16,300.00	7,870.00	15,669.50	7,968.52	127.99	132.99	95.67	-6,192.34	781.36	1,120.34	864.74	255.60	4.383	
16,400.00	7,870.00	15,762.01	7,968.93	129.66	134.52	95.66	-6,284.70	776.13	1,125.66	867.19	258.47	4.355	
16,500.00	7,870.00	16,113.25	7,973.56	131.33	140.60	96.04	-6,633.90	800.40	1,114.53	841.87	272.66	4.088	
16,600.00	7,870.00	16,186.95	7,976.56	133.01	141.91	96.26	-6,706.59	812.13	1,098.84	823.32	275.52	3.988	
16,700.00	7,870.00	16,253.87	7,981.70	134.69	143.09	96.58	-6,772.69	821.16	1,085.90	807.88	278.03	3.906	
16,800.00	7,870.00	16,321.00	7,988.08	136.37	144.27	96.97	-6,839.14	828.30	1,076.05	795.76	280.28	3.839	
16,900.00	7,870.00	16,372.09	7,992.81	138.06	145.16	97.24	-6,889.88	831.81	1,069.96	788.44	281.53	3.801	
16,999.04	7,870.00	16,430.08	7,997.00	139.72	146.16	97.48	-6,947.70	833.07	1,068.25	785.61	282.65	3.779	
17,000.00	7,870.00	16,430.79	7,997.05	139.74	146.17	97.48	-6,948.41	833.08	1,068.25	785.59	282.66	3.779	
17,100.00	7,870.00	16,509.13	7,999.70	141.43	147.50	97.62	-7,026.69	832.20	1,069.44	784.73	284.71	3.756	
17,200.00	7,870.00	16,620.26	8,001.39	143.12	149.39	97.69	-7,137.79	830.37	1,070.93	782.15	288.78	3.708	
17,300.00	7,870.00	16,720.59	8,002.82	144.81	151.10	97.77	-7,238.10	829.41	1,071.74	779.55	292.18	3.668	
17,400.00	7,870.00	16,822.51	8,004.25	146.50	152.84	97.83	-7,340.01	828.09	1,072.87	777.19	295.68	3.628	
17,500.00	7,870.00	16,927.59	8,005.67	148.19	154.63	97.91	-7,445.07	827.43	1,073.34	773.96	299.38	3.585	
17,600.00	7,870.00	17,024.90	8,006.97	149.89	156.29	97.98	-7,542.38	826.87	1,073.76	771.16	302.60	3.548	
17,700.00	7,870.00	17,135.67	8,008.50	151.59	158.19	98.06	-7,653.13	826.55	1,073.91	767.28	306.62	3.502	
17,702.15	7,870.00	17,138.08	8,008.54	151.62	158.23	98.06	-7,655.54	826.56	1,073.90	767.18	306.71	3.501	
17,800.00	7,870.00	17,212.00	8,009.58	153.29	159.50	98.11	-7,729.45	825.98	1,074.53	765.95	308.59	3.482	ES
17,900.00	7,870.00	17,290.09	8,010.08	154.99	160.82	98.12	-7,807.51	823.79	1,077.12	766.58	310.53	3.469	
18,000.00	7,870.00	17,364.86	8,009.59	156.69	162.08	98.07	-7,882.16	819.70	1,082.11	769.97	312.13	3.467	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY

Survey Program: 318-MWD OWSG

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	7,870.00	17,434.19	8,008.63	158.39	163.23	97.98	-7,951.26	814.14	1,089.56	776.41	313.15	3.479	
18,200.00	7,870.00	17,496.70	8,007.73	160.09	164.26	97.88	-8,013.37	807.22	1,100.06	786.72	313.34	3.511	
18,300.00	7,870.00	17,550.95	8,007.97	161.80	165.13	97.84	-8,067.03	799.25	1,114.36	801.95	312.41	3.567	
18,400.00	7,870.00	17,601.04	8,009.16	163.51	165.92	97.84	-8,116.24	789.99	1,132.71	822.10	310.62	3.647	
18,455.45	7,870.00	17,627.55	8,009.90	164.45	166.33	97.83	-8,142.10	784.20	1,144.74	835.44	309.31	3.701	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-50.14	785.79	-941.06	1,226.04				
100.00	100.00	88.22	88.22	0.13	0.15	-50.13	785.93	-940.97	1,226.02	1,225.74	0.28	4,358.960	
200.00	200.00	187.35	187.34	0.49	0.31	-50.10	786.45	-940.67	1,226.12	1,225.31	0.80	1,523.690	
300.00	300.00	286.46	286.45	0.85	0.48	-50.06	787.32	-940.16	1,226.29	1,224.96	1.33	923.320	
400.00	400.00	384.64	384.62	1.21	0.77	-49.99	788.52	-939.50	1,226.56	1,224.58	1.98	620.037	
500.00	500.00	482.38	482.35	1.57	1.12	-49.92	789.93	-938.89	1,227.01	1,224.32	2.69	456.614	
600.00	600.00	580.12	580.07	1.93	1.47	-49.85	791.55	-938.34	1,227.64	1,224.25	3.40	361.464	
700.00	700.00	757.32	757.00	2.29	2.11	-49.50	794.57	-930.22	1,225.26	1,220.87	4.39	279.083	
800.00	800.00	920.91	918.84	2.64	2.74	-48.58	800.47	-907.46	1,217.00	1,211.64	5.36	227.029	
900.00	900.00	1,013.36	1,009.29	3.00	3.15	-47.80	806.55	-889.42	1,206.68	1,200.57	6.10	197.736	
1,000.00	1,000.00	1,122.22	1,114.58	3.36	3.67	-46.59	817.43	-864.05	1,196.06	1,189.09	6.96	171.797	
1,100.00	1,100.00	1,199.41	1,188.42	3.72	4.08	-45.56	827.96	-844.20	1,186.63	1,178.91	7.72	153.696	
1,200.00	1,200.00	1,281.74	1,266.68	4.08	4.54	-44.35	841.41	-822.47	1,179.18	1,170.64	8.54	138.094	
1,300.00	1,300.00	1,385.44	1,364.21	4.44	5.17	-42.66	860.36	-792.78	1,172.33	1,162.81	9.53	123.073	
1,400.00	1,399.98	1,459.49	1,433.59	4.79	5.64	-84.51	874.93	-771.39	1,167.10	1,156.74	10.36	112.640	
1,500.00	1,499.84	1,594.36	1,559.65	5.15	6.53	-82.60	901.88	-731.76	1,162.61	1,151.00	11.61	100.146	
1,600.00	1,599.45	1,692.55	1,650.78	5.51	7.21	-81.35	919.47	-699.71	1,154.55	1,141.90	12.66	91.232	
1,700.00	1,698.70	1,775.11	1,727.54	5.87	7.79	-80.44	935.41	-673.84	1,148.40	1,134.79	13.61	84.379	
1,800.00	1,797.47	1,906.22	1,849.61	6.24	8.71	-79.18	959.65	-632.63	1,141.66	1,126.76	14.91	76.577	
1,900.00	1,895.62	2,000.20	1,937.48	6.63	9.37	-78.54	975.16	-603.12	1,132.91	1,116.94	15.96	70.978	
2,000.00	1,993.06	2,120.33	2,050.44	7.04	10.19	-78.00	993.01	-566.34	1,122.80	1,105.62	17.18	65.353	
2,100.00	2,089.64	2,217.21	2,141.97	7.48	10.84	-77.88	1,005.41	-537.13	1,110.65	1,092.39	18.26	60.830	
2,200.00	2,185.27	2,314.08	2,234.01	7.94	11.47	-78.00	1,017.93	-509.63	1,098.88	1,079.53	19.34	56.810	
2,300.00	2,279.82	2,422.44	2,337.50	8.45	12.15	-78.43	1,030.16	-479.94	1,085.61	1,065.11	20.50	52.957	
2,400.00	2,373.17	2,506.27	2,417.69	8.99	12.67	-79.02	1,039.55	-457.37	1,071.90	1,050.34	21.55	49.731	
2,500.00	2,465.21	2,588.07	2,495.95	9.58	13.17	-79.72	1,049.93	-435.94	1,059.19	1,036.55	22.64	46.793	
2,574.08	2,532.50	2,648.80	2,554.07	10.04	13.55	-80.34	1,058.33	-420.48	1,050.45	1,026.99	23.46	44.768	
2,600.00	2,555.89	2,670.04	2,574.40	10.21	13.68	-80.51	1,061.41	-415.16	1,047.56	1,023.80	23.76	44.092	
2,700.00	2,646.16	2,765.48	2,665.77	10.88	14.26	-81.28	1,075.58	-391.51	1,036.96	1,011.98	24.99	41.499	
2,800.00	2,736.44	2,889.22	2,783.98	11.57	15.03	-82.27	1,093.09	-359.39	1,025.31	998.90	26.40	38.832	
2,900.00	2,826.71	2,999.49	2,888.84	12.27	15.74	-83.10	1,107.88	-328.68	1,012.13	984.36	27.77	36.448	
3,000.00	2,916.98	3,108.28	2,992.29	13.00	16.45	-83.97	1,121.33	-297.83	998.01	968.87	29.14	34.251	
3,100.00	3,007.25	3,206.86	3,085.28	13.73	17.12	-84.65	1,134.41	-267.84	983.45	952.95	30.50	32.246	
3,200.00	3,097.52	3,275.86	3,150.08	14.48	17.61	-85.06	1,144.98	-246.62	970.40	938.67	31.74	30.578	
3,300.00	3,187.80	3,378.76	3,246.71	15.23	18.32	-85.67	1,162.99	-216.18	959.81	926.65	33.16	28.941	
3,400.00	3,278.07	3,483.18	3,344.73	15.99	19.06	-86.31	1,179.87	-184.39	947.73	913.12	34.61	27.386	
3,500.00	3,368.34	3,569.86	3,425.76	16.76	19.68	-86.79	1,194.92	-157.56	936.28	900.31	35.98	26.025	
3,600.00	3,458.61	3,651.86	3,502.67	17.54	20.25	-87.28	1,209.80	-133.34	926.47	889.17	37.30	24.836	
3,700.00	3,548.89	3,757.74	3,602.74	18.32	20.96	-88.06	1,228.21	-104.03	917.52	878.78	38.74	23.685	
3,800.00	3,639.16	3,855.59	3,695.28	19.10	21.61	-88.82	1,244.52	-76.77	908.07	867.95	40.12	22.634	
3,900.00	3,729.43	3,936.96	3,772.59	19.89	22.14	-89.52	1,258.17	-55.34	899.95	858.56	41.39	21.743	
4,000.00	3,819.70	4,029.55	3,861.01	20.69	22.72	-90.40	1,273.82	-32.77	893.52	850.83	42.69	20.930	
4,100.00	3,909.98	4,153.52	3,980.00	21.48	23.46	-91.76	1,292.14	-3.22	886.41	842.31	44.10	20.100	
4,200.00	4,000.25	4,269.47	4,091.19	22.28	24.17	-93.11	1,306.74	26.19	877.02	831.60	45.43	19.306	
4,300.00	4,090.52	4,364.87	4,182.44	23.08	24.75	-94.22	1,318.03	51.65	866.52	819.85	46.67	18.565	
4,400.00	4,180.79	4,459.85	4,274.06	23.88	25.31	-95.51	1,328.20	74.52	857.67	809.81	47.87	17.918	
4,500.00	4,271.06	4,555.57	4,366.02	24.69	25.89	-96.76	1,339.13	98.69	848.82	799.77	49.06	17.302	
4,600.00	4,361.34	4,640.60	4,447.42	25.49	26.40	-97.77	1,350.65	120.39	841.45	791.22	50.22	16.754	
4,700.00	4,451.61	4,736.91	4,540.19	26.30	26.98	-99.05	1,363.17	143.05	835.73	784.35	51.38	16.266	
4,800.00	4,541.88	4,873.89	4,670.99	27.11	27.83	-100.75	1,380.54	179.71	827.49	774.86	52.63	15.722	
4,900.00	4,632.15	4,951.67	4,745.50	27.92	28.31	-101.82	1,388.92	200.39	818.92	765.19	53.72	15.243	
5,000.00	4,722.43	5,023.53	4,814.82	28.74	28.73	-102.88	1,397.18	217.42	813.64	758.93	54.71	14.871	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 318-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,131.48	4,918.51	29.55	29.37	-104.30	1,412.47	243.21	810.02	754.20	55.82	14.511	
5,200.00	4,902.97	5,217.12	5,000.42	30.37	29.90	-105.33	1,425.88	264.30	806.85	749.98	56.87	14.187	
5,273.65	4,969.46	5,273.25	5,054.45	30.97	30.22	-106.07	1,434.40	276.92	806.00	748.45	57.56	14.003	
5,300.00	4,993.24	5,293.21	5,073.77	31.18	30.34	-106.36	1,437.29	281.03	806.11	748.33	57.79	13.950	
5,400.00	5,083.51	5,413.45	5,190.17	32.00	31.01	-108.14	1,453.26	306.57	805.75	746.94	58.81	13.701	
5,500.00	5,173.79	5,530.37	5,302.98	32.82	31.69	-109.87	1,467.73	333.65	803.92	744.15	59.76	13.451	
5,600.00	5,264.06	5,629.06	5,397.44	33.63	32.29	-111.21	1,480.75	359.09	800.45	739.75	60.70	13.188	
5,683.14	5,339.11	5,691.43	5,457.34	34.31	32.66	-112.08	1,489.15	374.28	799.14	737.76	61.38	13.019 CC	
5,700.00	5,354.33	5,703.04	5,468.55	34.45	32.72	-112.25	1,490.65	376.87	799.20	737.69	61.51	12.994	
5,800.00	5,444.60	5,784.51	5,547.78	35.27	33.16	-113.56	1,500.43	393.15	801.62	739.42	62.20	12.888	
5,900.00	5,534.88	5,886.54	5,647.43	36.09	33.68	-115.35	1,510.60	412.55	805.06	742.21	62.85	12.809	
6,000.00	5,625.15	5,996.66	5,754.31	36.91	34.28	-117.07	1,523.80	435.49	808.07	744.48	63.58	12.709	
6,100.00	5,715.42	6,111.18	5,864.35	37.74	34.95	-118.58	1,540.58	462.33	809.81	745.38	64.42	12.570	
6,200.00	5,805.69	6,192.89	5,942.96	38.56	35.44	-119.66	1,552.40	481.25	812.16	747.03	65.13	12.471	
6,300.00	5,895.96	6,282.93	6,029.90	39.38	35.95	-120.90	1,565.06	500.91	816.20	750.42	65.79	12.407	
6,400.00	5,986.24	6,366.19	6,110.58	40.20	36.40	-122.06	1,576.64	517.90	822.08	755.72	66.37	12.387	
6,500.00	6,076.51	6,468.33	6,210.03	41.03	36.94	-123.61	1,588.93	537.71	829.14	762.21	66.94	12.387	
6,600.00	6,166.78	6,590.95	6,328.99	41.85	37.61	-125.39	1,603.90	563.38	835.35	767.79	67.57	12.363	
6,700.00	6,257.05	6,724.44	6,457.41	42.67	38.40	-127.34	1,618.90	596.55	837.97	769.85	68.12	12.301	
6,800.00	6,347.33	6,829.56	6,557.30	43.50	39.08	-128.65	1,633.40	625.86	838.29	769.54	68.75	12.194	
6,900.00	6,437.60	6,902.00	6,626.37	44.32	39.54	-129.53	1,643.93	644.98	840.57	771.23	69.34	12.123	
7,000.00	6,527.87	6,999.05	6,719.45	45.15	40.13	-130.78	1,656.93	669.19	844.68	774.80	69.88	12.088	
7,100.00	6,618.14	7,071.15	6,789.07	45.98	40.54	-131.78	1,665.41	685.93	850.93	780.65	70.27	12.109	
7,200.00	6,708.41	7,143.65	6,859.64	46.80	40.92	-132.85	1,673.02	700.65	860.58	790.03	70.55	12.198	
7,300.00	6,798.69	7,269.65	6,982.88	47.63	41.53	-135.11	1,679.16	725.59	871.67	800.94	70.73	12.324	
7,400.00	6,888.96	7,422.23	7,126.38	48.45	42.11	-140.05	1,649.04	765.31	878.22	808.81	69.41	12.653	
7,500.00	6,979.23	7,477.16	7,175.25	49.28	42.27	-142.30	1,629.58	781.14	886.25	817.39	68.85	12.872	
7,600.00	7,069.50	7,525.00	7,218.49	50.11	42.41	-144.20	1,613.04	793.17	901.29	833.05	68.24	13.208	
7,692.09	7,152.63	7,568.00	7,257.56	50.87	42.49	-145.89	1,597.80	802.68	920.99	853.44	67.55	13.635	
7,700.00	7,159.79	7,571.71	7,260.92	50.93	42.50	-147.45	1,596.43	803.45	922.92	855.44	67.48	13.677	
7,750.00	7,205.70	7,595.70	7,282.59	51.32	42.55	-158.67	1,587.33	808.25	935.57	868.48	67.09	13.945	
7,800.00	7,252.52	7,625.13	7,309.05	51.66	42.61	-172.67	1,575.68	813.72	948.69	881.97	66.72	14.219	
7,850.00	7,299.89	7,668.74	7,347.93	51.96	42.68	170.62	1,557.69	821.86	961.47	895.07	66.40	14.481	
7,900.00	7,347.44	7,703.00	7,378.18	52.20	42.74	153.27	1,542.99	828.42	973.45	907.34	66.12	14.724	
7,950.00	7,394.83	7,738.82	7,409.41	52.39	42.78	137.12	1,526.77	835.13	984.80	918.93	65.87	14.951	
8,000.00	7,441.68	7,768.17	7,434.57	52.53	42.82	123.75	1,512.59	840.31	995.68	930.06	65.62	15.173	
8,050.00	7,487.65	7,800.70	7,461.98	52.62	42.86	113.20	1,495.94	845.73	1,005.89	940.49	65.41	15.379	
8,100.00	7,532.37	7,845.77	7,498.75	52.67	42.90	104.98	1,471.09	853.51	1,014.84	949.59	65.24	15.554	
8,150.00	7,575.52	7,891.80	7,534.65	52.67	42.94	98.67	1,443.58	862.06	1,022.17	957.08	65.09	15.704	
8,200.00	7,616.76	7,941.76	7,572.25	52.63	42.98	93.85	1,412.19	871.88	1,027.66	962.68	64.98	15.816	
8,250.00	7,655.77	7,970.00	7,592.99	52.55	43.00	90.30	1,393.90	877.66	1,031.39	966.55	64.84	15.906	
8,300.00	7,692.27	8,001.25	7,614.94	52.44	43.01	87.55	1,372.56	883.84	1,034.04	969.30	64.74	15.972	
8,350.00	7,725.97	8,022.96	7,629.23	52.29	43.02	85.44	1,356.70	887.77	1,036.10	971.45	64.65	16.027	
8,400.00	7,756.62	8,059.00	7,651.09	52.12	43.03	83.83	1,328.66	893.62	1,037.68	973.11	64.58	16.069	
8,450.00	7,783.98	8,059.00	7,651.09	51.92	43.03	82.58	1,328.66	893.62	1,038.16	973.53	64.63	16.063	
8,500.00	7,807.85	8,092.63	7,669.45	51.70	43.00	81.78	1,300.90	898.39	1,037.89	973.23	64.66	16.051	
8,550.00	7,828.05	8,117.78	7,681.97	51.45	42.98	81.27	1,279.32	901.57	1,036.82	972.04	64.78	16.004	
8,600.00	7,844.41	8,148.00	7,695.60	51.20	42.97	81.10	1,252.57	904.95	1,034.94	970.01	64.93	15.940	
8,650.00	7,856.82	8,177.31	7,707.68	50.93	42.93	81.24	1,226.03	907.93	1,032.01	966.86	65.15	15.839	
8,700.00	7,865.18	8,213.80	7,721.66	50.65	42.89	81.78	1,192.52	911.47	1,027.82	962.44	65.38	15.721	
8,750.00	7,869.43	8,249.89	7,734.35	50.36	42.85	82.67	1,158.90	914.76	1,022.40	956.73	65.67	15.568	
8,776.25	7,870.00	8,268.46	7,740.57	50.21	42.82	83.27	1,141.46	916.34	1,019.11	953.24	65.86	15.473	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	8,285.26	7,746.02	50.08	42.81	83.57	1,125.63	917.70	1,016.09	950.05	66.04	15.385	
8,900.00	7,870.00	8,352.25	7,766.15	49.53	42.73	84.68	1,061.92	922.36	1,005.36	938.54	66.82	15.046	
9,000.00	7,870.00	8,416.00	7,781.93	49.01	42.66	85.57	1,000.22	925.03	998.48	930.90	67.58	14.775	
9,100.00	7,870.00	8,469.69	7,791.72	48.52	42.58	86.13	947.45	925.50	995.84	927.42	68.42	14.555	
9,108.15	7,870.00	8,474.25	7,792.37	48.49	42.58	86.16	942.93	925.45	995.82	927.34	68.48	14.542	
9,200.00	7,870.00	8,552.68	7,799.63	48.06	42.48	86.59	864.89	923.45	997.19	928.48	68.71	14.513	
9,300.00	7,870.00	8,684.57	7,802.57	47.63	42.39	86.75	733.06	923.05	997.04	928.69	68.35	14.588	
9,400.00	7,870.00	8,797.53	7,804.40	47.22	42.43	86.85	620.15	926.18	993.75	925.20	68.55	14.496	
9,494.38	7,870.00	8,861.00	7,804.98	46.86	42.49	86.88	556.69	926.98	992.22	923.09	69.13	14.353	
9,500.00	7,870.00	8,861.00	7,804.98	46.83	42.49	86.88	556.69	926.98	992.23	923.05	69.18	14.342	
9,600.00	7,870.00	8,935.64	7,804.50	46.48	42.55	86.85	482.07	925.66	993.80	924.02	69.78	14.242	
9,700.00	7,870.00	9,031.88	7,803.64	46.14	42.68	86.82	385.91	921.91	997.38	927.01	70.37	14.173	
9,800.00	7,870.00	9,158.83	7,803.47	45.83	42.96	86.81	258.99	919.21	999.09	927.86	71.23	14.027	
9,900.00	7,870.00	9,262.48	7,802.52	45.54	43.31	86.76	155.35	918.00	999.97	927.73	72.24	13.842	
10,000.00	7,870.00	9,372.16	7,803.20	45.27	43.79	86.80	45.68	917.81	999.76	926.23	73.53	13.596	
10,100.00	7,870.00	9,477.25	7,803.31	45.03	44.36	86.80	-59.41	918.28	998.96	924.02	74.95	13.329	
10,200.00	7,870.00	9,571.30	7,802.73	44.82	44.95	86.77	-153.45	918.74	998.18	921.85	76.33	13.077	
10,300.00	7,870.00	9,672.07	7,801.27	44.66	45.67	86.68	-254.22	918.97	997.69	919.77	77.92	12.804	
10,310.72	7,870.00	9,677.48	7,801.14	44.64	45.71	86.68	-259.63	918.95	997.69	919.68	78.00	12.790	
10,400.00	7,870.00	9,741.73	7,798.70	44.56	46.20	86.54	-323.82	918.07	998.81	919.84	78.97	12.648	
10,500.00	7,870.00	9,880.03	7,794.03	44.58	47.37	86.28	-462.00	916.19	1,000.28	918.75	81.53	12.269	
10,600.00	7,870.00	10,007.18	7,797.43	44.82	48.60	86.46	-589.05	919.81	996.74	912.45	84.29	11.825	
10,700.00	7,870.00	10,101.82	7,800.74	45.36	49.59	86.63	-683.57	922.90	992.93	906.58	86.34	11.500	
10,800.00	7,870.00	10,205.93	7,804.08	46.15	50.74	86.82	-787.57	926.18	989.27	900.51	88.75	11.146	
10,900.00	7,870.00	10,306.64	7,807.14	47.09	51.90	86.98	-888.18	929.75	985.22	894.07	91.15	10.809	
11,000.00	7,870.00	10,410.64	7,808.81	48.13	53.14	87.07	-992.10	933.17	981.53	887.83	93.70	10.475	
11,100.00	7,870.00	10,507.07	7,810.73	49.22	54.33	87.16	-1,088.40	937.75	976.39	880.31	96.08	10.163	
11,200.00	7,870.00	10,580.66	7,811.01	50.37	55.25	87.18	-1,161.98	939.24	973.92	876.29	97.63	9.976	
11,300.00	7,870.00	10,669.33	7,810.44	51.55	56.37	87.14	-1,250.65	939.61	973.20	873.49	99.71	9.760	
11,317.85	7,870.00	10,685.52	7,810.28	51.76	56.57	87.13	-1,266.83	939.58	973.18	873.08	100.10	9.722	
11,400.00	7,870.00	10,763.34	7,809.35	52.76	57.56	87.08	-1,344.64	939.10	973.45	871.43	102.02	9.542	
11,500.00	7,870.00	10,864.63	7,807.66	54.00	58.88	86.98	-1,445.92	938.46	973.83	869.17	104.66	9.305	
11,600.00	7,870.00	10,962.64	7,804.47	55.27	60.18	86.79	-1,543.87	937.96	974.18	867.01	107.17	9.090	
11,700.00	7,870.00	11,062.62	7,798.45	56.56	61.54	86.44	-1,643.67	937.42	974.74	865.00	109.74	8.882	
11,800.00	7,870.00	11,162.56	7,791.38	57.88	62.91	86.02	-1,743.36	937.03	975.25	862.93	112.32	8.683	
11,900.00	7,870.00	11,255.63	7,784.37	59.21	64.21	85.62	-1,836.16	936.29	976.25	861.62	114.63	8.517	
12,000.00	7,870.00	11,356.32	7,776.43	60.57	65.63	85.15	-1,936.53	935.31	977.52	860.24	117.28	8.335	
12,100.00	7,870.00	11,456.93	7,767.89	61.94	67.07	84.66	-2,036.78	934.42	978.83	858.88	119.95	8.160	
12,200.00	7,870.00	11,562.42	7,757.29	63.33	68.59	84.04	-2,141.73	934.00	979.88	857.07	122.81	7.979	
12,300.00	7,870.00	11,658.66	7,748.45	64.74	70.00	83.53	-2,237.55	933.88	980.68	855.37	125.31	7.826	
12,400.00	7,870.00	11,780.09	7,743.95	66.16	71.79	83.27	-2,358.89	933.53	981.12	851.95	129.17	7.596	
12,478.29	7,870.00	11,848.46	7,743.04	67.28	72.81	83.21	-2,427.25	933.62	980.86	849.84	131.02	7.486	
12,500.00	7,870.00	11,868.95	7,743.06	67.59	73.12	83.21	-2,447.74	933.53	980.87	849.26	131.61	7.453	
12,600.00	7,870.00	11,968.37	7,744.63	69.04	74.61	83.31	-2,547.15	932.79	981.09	846.44	134.65	7.286	
12,700.00	7,870.00	12,082.84	7,746.83	70.51	76.34	83.43	-2,661.59	932.50	980.82	842.33	138.49	7.082	
12,800.00	7,870.00	12,184.37	7,749.65	71.98	77.90	83.59	-2,763.07	933.71	978.98	837.25	141.72	6.908	
12,900.00	7,870.00	12,288.40	7,754.21	73.47	79.51	83.85	-2,867.00	934.27	977.63	832.47	145.16	6.735	
13,000.00	7,870.00	12,394.55	7,758.90	74.96	81.16	84.11	-2,973.04	935.76	975.43	826.70	148.73	6.559	
13,100.00	7,870.00	12,499.70	7,763.20	76.47	82.82	84.34	-3,078.08	937.99	972.56	820.31	152.25	6.388	
13,200.00	7,870.00	12,594.34	7,767.85	77.99	84.32	84.61	-3,172.59	939.63	970.01	814.73	155.28	6.247	
13,300.00	7,870.00	12,693.75	7,772.83	79.51	85.90	84.89	-3,271.85	941.57	967.28	808.71	158.57	6.100	
13,400.00	7,870.00	12,784.20	7,777.92	81.05	87.33	85.18	-3,362.16	942.24	965.68	804.28	161.40	5.983	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.00	7,870.00	12,894.90	7,784.08	82.59	89.10	85.54	-3,472.68	943.37	963.89	798.55	165.34	5.830	
13,600.00	7,870.00	12,986.09	7,789.36	84.14	90.56	85.85	-3,563.70	944.84	961.54	793.30	168.24	5.715	
13,700.00	7,870.00	13,086.42	7,795.61	85.70	92.17	86.21	-3,663.84	945.23	960.37	788.72	171.65	5.595	
13,800.00	7,870.00	13,197.25	7,801.81	87.26	93.97	86.58	-3,774.48	946.81	958.26	782.63	175.63	5.456	
13,900.00	7,870.00	13,277.60	7,805.70	88.83	95.27	86.81	-3,854.72	947.60	956.66	778.74	177.92	5.377	
13,931.49	7,870.00	13,303.41	7,806.74	89.33	95.68	86.87	-3,880.52	947.53	956.56	777.92	178.64	5.355	
14,000.00	7,870.00	13,359.94	7,808.35	90.41	96.59	86.97	-3,937.02	946.89	956.99	776.77	180.22	5.310	
14,100.00	7,870.00	13,457.31	7,809.25	92.00	98.15	87.02	-4,034.37	945.03	958.52	775.17	183.34	5.228	
14,200.00	7,870.00	13,561.23	7,807.94	93.59	99.83	86.95	-4,138.27	943.36	959.85	773.04	186.81	5.138	
14,300.00	7,870.00	13,660.87	7,807.56	95.18	101.44	86.93	-4,237.88	941.37	961.52	771.45	190.06	5.059	
14,400.00	7,870.00	13,834.78	7,809.51	96.79	104.31	87.03	-4,411.67	945.95	958.24	760.85	197.39	4.855	
14,500.00	7,870.00	13,925.95	7,811.21	98.39	105.84	87.12	-4,502.67	951.17	952.09	751.75	200.34	4.752	
14,600.00	7,870.00	14,007.62	7,812.40	100.00	107.21	87.18	-4,584.25	954.82	947.25	744.50	202.76	4.672	
14,696.48	7,870.00	14,068.92	7,812.77	101.56	108.23	87.20	-4,645.53	955.73	945.46	741.47	203.99	4.635	
14,700.00	7,870.00	14,071.16	7,812.78	101.62	108.26	87.20	-4,647.77	955.72	945.46	741.44	204.03	4.634	
14,800.00	7,870.00	14,147.78	7,812.27	103.24	109.52	87.17	-4,724.37	954.28	947.00	741.12	205.87	4.600	
14,900.00	7,870.00	14,252.44	7,810.73	104.87	111.23	87.09	-4,828.98	951.08	949.80	740.35	209.46	4.535	
15,000.00	7,870.00	14,359.17	7,811.87	106.50	112.98	87.16	-4,935.67	948.83	951.51	738.27	213.24	4.462	
15,100.00	7,870.00	14,466.65	7,812.22	108.13	114.75	87.18	-5,043.14	947.46	952.42	735.36	217.06	4.388	
15,200.00	7,870.00	14,568.66	7,813.45	109.77	116.44	87.26	-5,145.14	946.44	953.02	732.46	220.56	4.321	
15,300.00	7,870.00	14,678.42	7,815.08	111.41	118.27	87.36	-5,254.88	946.04	952.99	728.44	224.55	4.244	
15,400.00	7,870.00	14,787.21	7,816.13	113.05	120.09	87.42	-5,363.66	946.85	951.86	723.40	228.46	4.167	
15,500.00	7,870.00	14,881.55	7,817.77	114.70	121.67	87.51	-5,457.98	947.70	950.54	719.01	231.54	4.105	
15,600.00	7,870.00	14,986.91	7,819.49	116.35	123.44	87.61	-5,563.33	948.50	949.37	714.10	235.27	4.035	
15,700.00	7,870.00	15,081.42	7,822.46	118.00	125.03	87.79	-5,657.79	949.07	948.30	709.90	238.40	3.978	
15,800.00	7,870.00	15,187.77	7,826.20	119.66	126.83	88.01	-5,764.07	949.95	947.01	704.75	242.25	3.909	
15,900.00	7,870.00	15,288.33	7,828.52	121.32	128.53	88.15	-5,864.59	951.23	945.31	699.58	245.73	3.847	
16,000.00	7,870.00	15,385.06	7,830.00	122.98	130.16	88.24	-5,961.30	952.28	943.85	694.88	248.97	3.791	
16,100.00	7,870.00	15,475.00	7,831.49	124.65	131.68	88.33	-6,051.23	952.79	942.91	691.12	251.79	3.745	
16,113.50	7,870.00	15,486.33	7,831.74	124.87	131.88	88.34	-6,062.55	952.76	942.89	690.78	252.12	3.740	
16,200.00	7,870.00	15,569.04	7,834.00	126.32	133.27	88.48	-6,145.23	952.03	943.28	688.41	254.87	3.701	
16,300.00	7,870.00	15,683.34	7,837.58	127.99	135.20	88.70	-6,259.47	951.78	943.10	683.87	259.23	3.638	
16,400.00	7,870.00	15,789.78	7,840.97	129.66	137.01	88.90	-6,365.85	952.96	941.58	678.48	263.10	3.579	
16,500.00	7,870.00	15,890.62	7,843.92	131.33	138.73	89.08	-6,466.64	954.36	939.81	673.18	266.63	3.525	
16,600.00	7,870.00	15,990.18	7,846.87	133.01	140.43	89.26	-6,566.15	956.08	937.70	667.61	270.08	3.472	
16,700.00	7,870.00	16,077.99	7,848.98	134.69	141.93	89.39	-6,653.92	956.62	936.69	663.89	272.80	3.434	
16,800.00	7,870.00	16,185.47	7,851.81	136.37	143.76	89.56	-6,761.36	956.95	936.03	659.30	276.74	3.382	
16,900.00	7,870.00	16,304.10	7,854.43	138.06	145.79	89.72	-6,879.94	959.33	933.67	652.37	281.30	3.319	
17,000.00	7,870.00	16,390.70	7,855.16	139.74	147.28	89.76	-6,966.51	961.51	930.85	646.87	283.98	3.278	
17,100.00	7,870.00	16,480.77	7,855.49	141.43	148.82	89.78	-7,056.57	962.30	929.62	642.81	286.81	3.241	
17,200.00	7,870.00	16,578.04	7,855.80	143.12	150.48	89.80	-7,153.84	962.56	929.01	638.94	290.07	3.203	
17,300.00	7,870.00	16,675.03	7,856.16	144.81	152.13	89.82	-7,250.83	962.57	928.65	635.34	293.32	3.166	
17,400.00	7,870.00	16,779.97	7,857.22	146.50	153.92	89.89	-7,355.77	962.68	928.21	631.12	297.09	3.124	
17,500.00	7,870.00	16,886.49	7,859.17	148.19	155.75	90.01	-7,462.27	963.40	927.20	626.23	300.97	3.081	
17,600.00	7,870.00	16,996.18	7,861.16	149.89	157.64	90.13	-7,571.92	965.18	925.23	620.20	305.03	3.033	
17,700.00	7,870.00	17,103.55	7,862.96	151.59	159.49	90.25	-7,679.24	967.93	922.34	613.40	308.94	2.986	
17,800.00	7,870.00	17,207.33	7,864.40	153.29	161.29	90.34	-7,782.96	971.21	918.84	606.21	312.63	2.939	
17,900.00	7,870.00	17,301.79	7,865.06	154.99	162.93	90.38	-7,877.37	974.12	915.43	599.64	315.79	2.899	
18,000.00	7,870.00	17,393.18	7,865.23	156.69	164.51	90.39	-7,968.74	976.19	912.82	594.08	318.74	2.864	
18,100.00	7,870.00	17,487.87	7,865.73	158.39	166.14	90.42	-8,063.41	977.60	911.00	589.12	321.88	2.830	
18,200.00	7,870.00	17,587.04	7,866.91	160.09	167.85	90.50	-8,162.57	978.88	909.37	584.07	325.30	2.795	
18,300.00	7,870.00	17,678.23	7,867.94	161.80	169.42	90.56	-8,253.75	979.44	908.43	580.22	328.21	2.768	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 318-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,384.22	7,870.00	17,757.86	7,868.70	163.24	170.79	90.61	-8,333.38	979.38	908.21	577.39	330.82	2.745	
18,400.00	7,870.00	17,772.78	7,868.84	163.51	171.05	90.62	-8,348.30	979.33	908.22	576.91	331.31	2.741	
18,455.45	7,870.00	17,827.93	7,869.33	164.45	171.99	90.65	-8,403.44	979.07	908.29	575.08	333.21	2.726	ES, SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 168-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-13.79	217.84	-53.48	224.54				
100.00	100.00	92.71	92.71	0.13	0.16	-13.86	217.23	-53.61	223.77	223.48	0.29	767.625	
200.00	200.00	196.95	196.92	0.49	0.39	-14.14	214.99	-54.15	221.81	220.93	0.88	251.517	
300.00	300.00	302.22	302.00	0.85	0.78	-15.09	209.38	-56.47	217.19	215.56	1.63	133.380	
400.00	400.00	400.56	399.96	1.21	1.16	-16.91	202.30	-61.49	211.67	209.32	2.35	90.113	
500.00	500.00	497.13	496.08	1.57	1.53	-19.27	196.25	-68.61	207.99	204.91	3.08	67.599	
600.00	600.00	595.82	594.05	1.93	1.93	-22.49	189.94	-78.64	205.62	201.78	3.83	53.652	
700.00	700.00	693.18	690.20	2.29	2.34	-26.74	182.58	-91.98	204.44	199.83	4.61	44.341	
704.02	704.02	697.06	694.02	2.30	2.36	-26.92	182.28	-92.57	204.44	199.80	4.64	44.040	CC, ES
800.00	800.00	789.63	784.92	2.64	2.78	-31.81	174.65	-108.33	205.58	200.17	5.42	37.958	
900.00	900.00	883.73	876.61	3.00	3.24	-37.54	166.10	-127.63	209.90	203.67	6.23	33.668	
1,000.00	1,000.00	984.18	974.19	3.36	3.75	-43.68	156.49	-149.46	216.97	209.88	7.09	30.595	
1,100.00	1,100.00	1,083.41	1,070.84	3.72	4.26	-49.19	146.42	-169.55	224.84	216.92	7.93	28.368	
1,200.00	1,200.00	1,182.16	1,166.91	4.08	4.78	-54.45	135.46	-189.59	234.15	225.41	8.74	26.788	
1,300.00	1,300.00	1,282.59	1,264.90	4.44	5.29	-59.20	124.38	-208.62	244.18	234.64	9.54	25.583	
1,400.00	1,399.98	1,380.38	1,360.58	4.79	5.79	-106.30	114.10	-225.98	255.34	245.04	10.30	24.781	
1,500.00	1,499.84	1,473.62	1,451.66	5.15	6.27	-110.61	104.05	-243.25	269.73	258.73	11.01	24.509	SF
1,600.00	1,599.45	1,565.42	1,541.06	5.51	6.75	-114.99	94.28	-261.66	288.74	277.07	11.67	24.732	
1,700.00	1,698.70	1,658.72	1,631.73	5.87	7.25	-119.44	84.01	-281.08	311.98	299.64	12.34	25.286	
1,800.00	1,797.47	1,752.32	1,722.70	6.24	7.75	-123.73	73.41	-300.43	338.93	325.94	12.99	26.085	
1,900.00	1,895.62	1,846.70	1,814.65	6.63	8.25	-127.61	63.80	-319.43	369.40	355.75	13.65	27.062	
2,000.00	1,993.06	1,940.85	1,906.66	7.04	8.73	-131.07	55.13	-337.38	402.73	388.43	14.30	28.155	
2,100.00	2,089.64	2,030.01	1,994.03	7.48	9.18	-133.76	49.20	-354.10	439.32	424.39	14.93	29.425	
2,200.00	2,185.27	2,112.94	2,075.20	7.94	9.59	-135.96	44.32	-370.37	480.07	464.55	15.52	30.930	
2,300.00	2,279.82	2,192.72	2,153.09	8.45	10.00	-137.78	40.25	-387.19	525.33	509.23	16.11	32.618	
2,400.00	2,373.17	2,273.74	2,232.02	8.99	10.42	-139.48	36.08	-404.97	574.55	557.83	16.72	34.368	
2,500.00	2,465.21	2,355.01	2,311.12	9.58	10.84	-141.03	31.83	-423.09	627.19	609.84	17.35	36.149	
2,574.08	2,532.50	2,417.74	2,372.20	10.04	11.17	-142.13	28.80	-437.08	668.08	650.23	17.85	37.426	
2,600.00	2,555.89	2,439.94	2,393.83	10.21	11.28	-142.71	27.78	-441.96	682.61	664.58	18.03	37.860	
2,700.00	2,646.16	2,515.63	2,467.59	10.88	11.68	-144.53	24.00	-458.50	739.09	720.44	18.64	39.646	
2,800.00	2,736.44	2,593.52	2,543.38	11.57	12.09	-146.27	18.73	-475.72	796.73	777.45	19.28	41.326	
2,900.00	2,826.71	2,677.90	2,625.57	12.27	12.54	-147.94	12.78	-493.87	854.47	834.49	19.97	42.778	
3,000.00	2,916.98	2,761.89	2,707.46	13.00	12.98	-149.43	6.60	-511.46	912.28	891.61	20.67	44.135	
3,100.00	3,007.25	2,852.25	2,795.75	13.73	13.45	-150.82	0.26	-529.65	969.70	948.28	21.42	45.276	
3,200.00	3,097.52	2,939.24	2,880.88	14.48	13.89	-152.01	-5.57	-546.51	1,026.73	1,004.59	22.14	46.373	
3,300.00	3,187.80	3,002.89	2,943.08	15.23	14.22	-152.78	-9.82	-559.31	1,084.51	1,061.81	22.69	47.791	
3,400.00	3,278.07	3,063.23	3,001.87	15.99	14.54	-153.44	-13.96	-572.28	1,143.61	1,120.39	23.22	49.253	
3,500.00	3,368.34	3,122.78	3,059.63	16.76	14.86	-154.04	-18.51	-586.05	1,204.32	1,180.58	23.74	50.735	
3,600.00	3,458.61	3,203.71	3,138.01	17.54	15.32	-154.81	-25.12	-605.06	1,265.61	1,241.18	24.44	51.790	
3,700.00	3,548.89	3,310.40	3,241.68	18.32	15.90	-155.75	-34.06	-628.65	1,326.14	1,300.79	25.35	52.322	
3,800.00	3,639.16	3,412.56	3,341.40	19.10	16.43	-156.59	-42.30	-649.24	1,385.25	1,359.04	26.21	52.861	
3,900.00	3,729.43	3,467.04	3,394.53	19.89	16.72	-156.99	-46.67	-660.49	1,444.71	1,418.01	26.70	54.117	
4,000.00	3,819.70	3,525.60	3,451.47	20.69	17.04	-157.39	-51.39	-673.34	1,505.29	1,478.07	27.22	55.306	
4,100.00	3,909.98	3,584.00	3,508.02	21.48	17.36	-157.72	-55.86	-687.18	1,567.03	1,539.29	27.74	56.492	
4,200.00	4,000.25	3,696.75	3,617.28	22.28	17.99	-158.29	-63.57	-713.91	1,628.56	1,599.84	28.72	56.707	
4,300.00	4,090.52	3,796.87	3,714.89	23.08	18.52	-158.81	-70.84	-734.98	1,688.30	1,658.72	29.58	57.075	
4,400.00	4,180.79	3,858.19	3,774.63	23.88	18.85	-159.11	-75.47	-747.98	1,748.40	1,718.27	30.13	58.026	
4,500.00	4,271.06	3,945.42	3,859.56	24.69	19.32	-159.52	-82.34	-766.67	1,808.84	1,777.95	30.89	58.554	
4,600.00	4,361.34	4,027.16	3,939.23	25.49	19.75	-159.90	-89.14	-783.61	1,869.01	1,837.41	31.61	59.135	
4,700.00	4,451.61	4,095.08	4,005.42	26.30	20.11	-160.20	-94.79	-797.79	1,929.36	1,897.15	32.21	59.897	
4,800.00	4,541.88	4,156.51	4,065.17	27.11	20.44	-160.47	-100.53	-810.85	1,990.42	1,957.66	32.76	60.752	
4,900.00	4,632.15	4,220.48	4,127.27	27.92	20.80	-160.74	-106.86	-824.81	2,052.14	2,018.80	33.34	61.560	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 168-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,395.32	4,297.89	28.74	21.71	-161.41	-121.77	-859.84	2,111.78	2,076.99	34.79	60.703	
5,100.00	4,812.70	4,503.61	4,404.12	29.55	22.24	-161.79	-129.70	-879.30	2,169.85	2,134.15	35.70	60.783	
5,200.00	4,902.97	5,200.00	4,677.32	30.37	24.99	-162.70	-144.09	-915.45	2,223.24	2,184.06	39.18	56.745	
5,300.00	4,993.24	5,082.28	4,979.40	31.18	24.38	-163.68	-148.88	-929.81	2,269.05	2,229.57	39.48	57.470	
5,400.00	5,083.51	5,176.96	5,074.08	32.00	24.61	-164.00	-149.01	-929.80	2,310.73	2,270.52	40.21	57.465	
5,500.00	5,173.79	5,261.65	5,158.77	32.82	24.82	-164.28	-149.46	-929.61	2,352.49	2,311.60	40.89	57.527	
5,600.00	5,264.06	5,356.60	5,253.72	33.63	25.05	-164.60	-150.38	-929.16	2,394.34	2,352.72	41.62	57.533	
5,700.00	5,354.33	5,450.06	5,347.16	34.45	25.28	-164.91	-151.56	-928.33	2,436.06	2,393.73	42.33	57.547	
5,800.00	5,444.60	5,527.59	5,424.68	35.27	25.47	-165.16	-152.59	-927.75	2,478.00	2,435.01	42.98	57.651	
5,900.00	5,534.88	5,614.38	5,511.47	36.09	25.70	-165.42	-153.47	-927.72	2,520.34	2,476.66	43.68	57.698	
6,000.00	5,625.15	5,713.18	5,610.26	36.91	25.97	-165.69	-153.65	-928.08	2,562.62	2,518.18	44.44	57.664	
6,100.00	5,715.42	5,808.45	5,705.53	37.74	26.23	-165.92	-153.16	-928.49	2,604.62	2,559.43	45.18	57.647	
6,200.00	5,805.69	5,896.59	5,793.67	38.56	26.46	-166.12	-152.62	-928.86	2,646.60	2,600.71	45.89	57.672	
6,300.00	5,895.96	5,978.92	5,876.00	39.38	26.69	-166.30	-152.13	-929.40	2,688.79	2,642.21	46.58	57.729	
6,400.00	5,986.24	6,060.69	5,957.76	40.20	26.92	-166.48	-151.75	-930.20	2,731.31	2,684.05	47.26	57.792	
6,500.00	6,076.51	6,145.85	6,042.91	41.03	27.17	-166.65	-151.28	-931.35	2,774.08	2,726.11	47.97	57.835	
6,600.00	6,166.78	6,229.01	6,126.07	41.85	27.41	-166.82	-151.06	-932.42	2,816.99	2,768.33	48.66	57.890	
6,700.00	6,257.05	6,302.09	6,199.13	42.67	27.63	-166.96	-151.00	-933.72	2,860.36	2,811.05	49.31	58.013	
6,800.00	6,347.33	6,400.60	6,297.63	43.50	27.93	-167.14	-150.83	-935.68	2,903.87	2,853.78	50.08	57.980	
6,900.00	6,437.60	6,488.49	6,385.50	44.32	28.20	-167.30	-150.53	-937.42	2,947.30	2,896.49	50.81	58.010	
7,000.00	6,527.87	6,583.50	6,480.49	45.15	28.48	-167.46	-150.23	-939.21	2,990.69	2,939.12	51.57	57.995	
7,100.00	6,618.14	6,688.62	6,585.60	45.98	28.80	-167.66	-150.41	-940.41	3,033.82	2,981.44	52.38	57.922	
7,200.00	6,708.41	6,801.82	6,698.79	46.80	29.11	-167.89	-151.55	-939.98	3,076.28	3,023.07	53.21	57.814	
7,300.00	6,798.69	6,890.64	6,787.61	47.63	29.35	-168.07	-152.13	-939.48	3,118.47	3,064.56	53.92	57.840	
7,400.00	6,888.96	6,967.03	6,864.00	48.45	29.56	-168.22	-152.61	-939.37	3,160.98	3,106.41	54.56	57.931	
7,500.00	6,979.23	7,045.79	6,942.75	49.28	29.79	-168.36	-153.16	-939.61	3,203.86	3,148.62	55.23	58.007	
7,600.00	7,069.50	7,122.21	7,019.17	50.11	30.02	-168.49	-153.80	-940.11	3,247.10	3,191.21	55.89	58.098	
7,692.09	7,152.63	7,194.01	7,090.97	50.87	30.24	-168.62	-154.57	-940.81	3,287.25	3,230.75	56.50	58.177	
7,700.00	7,159.79	7,200.25	7,097.20	50.93	30.26	-170.16	-154.63	-940.88	3,290.69	3,234.13	56.56	58.183	
7,750.00	7,205.70	7,241.80	7,138.75	51.32	30.39	178.90	-155.07	-941.43	3,311.17	3,254.27	56.89	58.198	
7,800.00	7,252.52	7,294.84	7,191.79	51.66	30.55	165.62	-155.69	-942.04	3,329.31	3,272.03	57.28	58.124	
7,850.00	7,299.89	7,342.85	7,239.79	51.96	30.70	150.16	-156.36	-942.41	3,344.92	3,287.30	57.62	58.050	
7,900.00	7,347.44	7,380.94	7,277.87	52.20	30.82	133.86	-157.01	-942.70	3,358.07	3,300.18	57.89	58.006	
7,950.00	7,394.83	7,418.94	7,315.86	52.39	30.93	118.83	-157.80	-943.03	3,368.73	3,310.59	58.15	57.937	
8,000.00	7,441.68	7,479.15	7,376.05	52.53	31.12	106.65	-159.16	-943.42	3,376.71	3,318.21	58.50	57.717	
8,050.00	7,487.65	7,629.44	7,526.30	52.62	31.54	98.05	-161.75	-941.92	3,381.34	3,322.04	59.30	57.020	
8,100.00	7,532.37	7,688.11	7,584.96	52.67	31.70	91.47	-162.07	-940.51	3,382.37	3,322.77	59.61	56.746	
8,150.00	7,575.52	7,758.01	7,654.83	52.67	31.88	86.96	-161.98	-938.68	3,380.59	3,320.63	59.95	56.389	
8,200.00	7,616.76	7,853.78	7,750.54	52.63	32.12	84.26	-161.00	-935.44	3,375.87	3,315.47	60.40	55.892	
8,250.00	7,655.77	7,934.69	7,831.35	52.55	32.32	82.66	-159.30	-931.73	3,368.08	3,307.31	60.77	55.426	
8,300.00	7,692.27	7,994.35	7,890.90	52.44	32.47	81.81	-157.60	-928.66	3,357.81	3,296.77	61.04	55.012	
8,350.00	7,725.97	8,003.35	7,899.89	52.29	32.49	81.08	-157.41	-928.21	3,345.55	3,284.46	61.09	54.762	
8,400.00	7,756.62	8,018.30	7,914.81	52.12	32.53	81.01	-157.11	-927.46	3,331.56	3,270.39	61.17	54.462	
8,450.00	7,783.98	8,031.79	7,928.29	51.92	32.57	81.42	-156.93	-926.80	3,315.98	3,254.73	61.25	54.140	
8,500.00	7,807.85	8,043.71	7,940.20	51.70	32.60	82.24	-156.82	-926.24	3,298.94	3,237.62	61.32	53.796	
8,550.00	7,828.05	8,053.95	7,950.43	51.45	32.62	83.43	-156.78	-925.77	3,280.58	3,219.18	61.40	53.429	
8,600.00	7,844.41	8,077.00	7,973.45	51.20	32.68	85.21	-156.84	-924.75	3,261.12	3,199.57	61.55	52.983	
8,650.00	7,856.82	8,077.00	7,973.45	50.93	32.68	86.88	-156.84	-924.75	3,240.56	3,178.95	61.61	52.602	
8,700.00	7,865.18	8,077.00	7,973.45	50.65	32.68	88.84	-156.84	-924.75	3,219.18	3,157.50	61.68	52.195	
8,750.00	7,869.43	8,077.00	7,973.45	50.36	32.68	91.04	-156.84	-924.75	3,197.13	3,135.37	61.76	51.765	
8,776.25	7,870.00	8,077.00	7,973.45	50.21	32.68	92.29	-156.84	-924.75	3,185.34	3,123.53	61.81	51.531	
8,800.00	7,870.00	8,077.00	7,973.45	50.08	32.68	92.29	-156.84	-924.75	3,174.69	3,112.83	61.86	51.317	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 168-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,077.00	7,973.45	49.53	32.68	92.29	-156.84	-924.75	3,131.43	3,069.32	62.11	50.420	
9,000.00	7,870.00	8,077.00	7,973.45	49.01	32.68	92.29	-156.84	-924.75	3,090.79	3,028.39	62.40	49.535	
9,100.00	7,870.00	8,077.00	7,973.45	48.52	32.68	92.29	-156.84	-924.75	3,052.89	2,990.16	62.74	48.662	
9,200.00	7,870.00	8,077.00	7,973.45	48.06	32.68	92.29	-156.84	-924.75	3,017.83	2,954.71	63.13	47.806	
9,300.00	7,870.00	8,077.00	7,973.45	47.63	32.68	92.29	-156.84	-924.75	2,985.71	2,922.14	63.57	46.970	
9,400.00	7,870.00	8,077.00	7,973.45	47.22	32.68	92.29	-156.84	-924.75	2,956.63	2,892.57	64.06	46.157	
9,500.00	7,870.00	8,077.00	7,973.45	46.83	32.68	92.29	-156.84	-924.75	2,930.66	2,866.07	64.59	45.372	
9,600.00	7,870.00	8,077.00	7,973.45	46.48	32.68	92.29	-156.84	-924.75	2,907.91	2,842.74	65.17	44.618	
9,700.00	7,870.00	8,077.00	7,973.45	46.14	32.68	92.29	-156.84	-924.75	2,888.45	2,822.65	65.80	43.900	
9,800.00	7,870.00	8,077.00	7,973.45	45.83	32.68	92.29	-156.84	-924.75	2,872.33	2,805.87	66.46	43.222	
9,900.00	7,870.00	8,081.95	7,978.40	45.54	32.69	92.39	-156.88	-924.54	2,859.62	2,792.44	67.18	42.569	
10,000.00	7,870.00	8,082.64	7,979.09	45.27	32.70	92.40	-156.89	-924.51	2,850.36	2,782.46	67.90	41.979	
10,100.00	7,870.00	8,083.37	7,979.82	45.03	32.70	92.42	-156.90	-924.48	2,844.59	2,775.95	68.65	41.439	
10,200.00	7,870.00	8,084.15	7,980.60	44.82	32.70	92.43	-156.90	-924.44	2,842.33	2,772.92	69.41	40.951	
10,214.26	7,870.00	8,084.27	7,980.71	44.80	32.70	92.43	-156.91	-924.44	2,842.30	2,772.77	69.52	40.883	
10,300.00	7,870.00	8,084.98	7,981.43	44.66	32.70	92.45	-156.91	-924.41	2,843.59	2,773.41	70.18	40.517	
10,400.00	7,870.00	8,085.86	7,982.31	44.56	32.70	92.47	-156.92	-924.37	2,848.36	2,777.40	70.96	40.140	
10,500.00	7,870.00	8,086.81	7,983.25	44.58	32.71	92.49	-156.93	-924.33	2,856.62	2,784.88	71.74	39.820	
10,600.00	7,870.00	8,087.82	7,984.26	44.82	32.71	92.51	-156.94	-924.29	2,868.35	2,795.84	72.51	39.558	
10,700.00	7,870.00	8,088.90	7,985.34	45.36	32.71	92.53	-156.96	-924.24	2,883.50	2,810.23	73.27	39.354	
10,800.00	7,870.00	8,090.07	7,986.51	46.15	32.71	92.55	-156.97	-924.19	2,902.02	2,828.00	74.01	39.209	
10,900.00	7,870.00	8,091.32	7,987.76	47.09	32.72	92.58	-156.99	-924.14	2,923.84	2,849.10	74.74	39.121	
11,000.00	7,870.00	8,092.69	7,989.13	48.13	32.72	92.60	-157.00	-924.08	2,948.89	2,873.46	75.44	39.090	
11,100.00	7,870.00	8,094.16	7,990.60	49.22	32.73	92.63	-157.02	-924.02	2,977.10	2,900.99	76.11	39.115	
11,200.00	7,870.00	8,095.78	7,992.21	50.37	32.73	92.67	-157.05	-923.96	3,008.36	2,931.60	76.76	39.194	
11,300.00	7,870.00	8,097.54	7,993.97	51.55	32.74	92.70	-157.07	-923.88	3,042.59	2,965.22	77.37	39.325	
11,400.00	7,870.00	8,099.47	7,995.91	52.76	32.74	92.74	-157.10	-923.80	3,079.68	3,001.73	77.95	39.508	
11,500.00	7,870.00	8,101.61	7,998.04	54.00	32.75	92.78	-157.14	-923.71	3,119.55	3,041.04	78.50	39.739	
11,600.00	7,870.00	8,103.98	8,000.41	55.27	32.75	92.83	-157.18	-923.62	3,162.07	3,083.05	79.02	40.017	
11,700.00	7,870.00	8,106.62	8,003.05	56.56	32.76	92.88	-157.22	-923.51	3,207.14	3,127.64	79.50	40.340	
11,800.00	7,870.00	8,109.59	8,006.01	57.88	32.77	92.94	-157.28	-923.39	3,254.66	3,174.71	79.95	40.707	
11,900.00	7,870.00	8,112.94	8,009.36	59.21	32.78	93.01	-157.35	-923.25	3,304.53	3,224.15	80.38	41.114	
12,000.00	7,870.00	8,116.77	8,013.18	60.57	32.79	93.09	-157.43	-923.10	3,356.63	3,275.86	80.77	41.560	
12,100.00	7,870.00	8,121.17	8,017.58	61.94	32.80	93.18	-157.53	-922.93	3,410.86	3,329.73	81.13	42.042	
12,200.00	7,870.00	8,126.28	8,022.68	63.33	32.81	93.28	-157.66	-922.73	3,467.13	3,385.67	81.46	42.560	
12,300.00	7,870.00	8,132.29	8,028.69	64.74	32.83	93.40	-157.82	-922.49	3,525.33	3,443.56	81.78	43.110	
12,400.00	7,870.00	8,139.47	8,035.86	66.16	32.85	93.55	-158.04	-922.22	3,585.38	3,503.31	82.06	43.691	
12,500.00	7,870.00	8,148.19	8,044.57	67.59	32.87	93.72	-158.32	-921.89	3,647.17	3,564.84	82.33	44.300	
12,600.00	7,870.00	8,159.01	8,055.37	69.04	32.90	93.94	-158.71	-921.49	3,710.61	3,628.04	82.58	44.935	
12,700.00	7,870.00	8,172.78	8,069.12	70.51	32.94	94.22	-159.28	-920.99	3,775.63	3,692.82	82.81	45.594	
12,800.00	7,870.00	12,800.00	8,033.77	71.98	45.64	93.50	-158.28	-922.36	3,842.06	3,745.83	96.23	39.925	
12,900.00	7,870.00	12,900.00	8,036.13	73.47	45.92	93.55	-158.33	-922.27	3,910.03	3,813.39	96.64	40.459	
13,000.00	7,870.00	13,000.00	8,038.49	74.96	46.20	93.60	-158.39	-922.17	3,979.34	3,882.31	97.04	41.009	
13,100.00	7,870.00	8,188.02	8,084.34	76.47	32.98	94.52	-159.88	-920.42	4,049.93	3,966.47	83.46	48.526	
13,200.00	7,870.00	8,193.32	8,089.63	77.99	32.99	94.63	-160.10	-920.22	4,121.71	4,038.13	83.59	49.311	
13,300.00	7,870.00	8,198.66	8,094.96	79.51	33.01	94.74	-160.32	-920.02	4,194.64	4,110.94	83.70	50.116	
13,400.00	7,870.00	8,204.03	8,100.33	81.05	33.02	94.85	-160.54	-919.82	4,268.66	4,184.86	83.80	50.939	
13,500.00	7,870.00	8,209.44	8,105.72	82.59	33.04	94.95	-160.76	-919.61	4,343.71	4,259.82	83.89	51.780	
13,600.00	7,870.00	8,214.88	8,111.16	84.14	33.05	95.06	-160.99	-919.40	4,419.75	4,335.78	83.97	52.636	
13,700.00	7,870.00	8,220.35	8,116.62	85.70	33.07	95.17	-161.22	-919.18	4,496.72	4,412.68	84.04	53.509	
13,800.00	7,870.00	8,225.86	8,122.12	87.26	33.08	95.28	-161.45	-918.97	4,574.58	4,490.48	84.10	54.395	
13,900.00	7,870.00	8,231.41	8,127.66	88.83	33.10	95.40	-161.68	-918.74	4,653.28	4,569.12	84.15	55.296	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 168-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	8,236.99	8,133.23	90.41	33.12	95.51	-161.91	-918.52	4,732.78	4,648.58	84.20	56.209	
14,100.00	7,870.00	8,242.61	8,138.84	92.00	33.13	95.62	-162.15	-918.29	4,813.03	4,728.79	84.24	57.135	
14,200.00	7,870.00	8,248.26	8,144.49	93.59	33.15	95.73	-162.39	-918.06	4,894.01	4,809.74	84.28	58.072	
14,300.00	7,870.00	8,253.95	8,150.17	95.18	33.16	95.85	-162.63	-917.83	4,975.68	4,891.38	84.31	59.020	
14,400.00	7,870.00	8,259.68	8,155.89	96.79	33.18	95.96	-162.87	-917.59	5,058.00	4,973.67	84.33	59.978	
14,500.00	7,870.00	8,265.45	8,161.64	98.39	33.19	96.08	-163.12	-917.35	5,140.95	5,056.59	84.35	60.946	
14,600.00	7,870.00	8,271.25	8,167.44	100.00	33.21	96.19	-163.37	-917.11	5,224.48	5,140.11	84.37	61.924	
14,700.00	7,870.00	8,268.04	8,164.23	101.62	33.20	96.13	-163.23	-917.25	5,308.59	5,224.22	84.37	62.920	
14,800.00	7,870.00	8,271.19	8,167.38	103.24	33.21	96.19	-163.36	-917.13	5,393.24	5,308.86	84.38	63.917	
14,900.00	7,870.00	8,274.33	8,170.51	104.87	33.22	96.26	-163.49	-917.00	5,478.40	5,394.02	84.38	64.922	
15,000.00	7,870.00	8,277.46	8,173.63	106.50	33.23	96.32	-163.62	-916.87	5,564.06	5,479.67	84.39	65.935	
15,100.00	7,870.00	8,280.57	8,176.73	108.13	33.24	96.38	-163.75	-916.75	5,650.18	5,565.79	84.39	66.954	
15,200.00	7,870.00	8,283.66	8,179.83	109.77	33.25	96.44	-163.88	-916.63	5,736.75	5,652.36	84.39	67.980	
15,300.00	7,870.00	8,286.75	8,182.90	111.41	33.25	96.51	-164.01	-916.51	5,823.75	5,739.36	84.39	69.012	
15,400.00	7,870.00	8,289.82	8,185.97	113.05	33.26	96.57	-164.14	-916.39	5,911.16	5,826.77	84.39	70.050	
15,500.00	7,870.00	8,292.87	8,189.02	114.70	33.27	96.63	-164.26	-916.27	5,998.95	5,914.57	84.38	71.093	
15,600.00	7,870.00	8,295.92	8,192.06	116.35	33.28	96.69	-164.39	-916.15	6,087.13	6,002.75	84.38	72.142	
15,700.00	7,870.00	8,298.95	8,195.08	118.00	33.29	96.75	-164.52	-916.03	6,175.66	6,091.29	84.37	73.195	
15,800.00	7,870.00	8,301.96	8,198.10	119.66	33.30	96.81	-164.64	-915.92	6,264.53	6,180.17	84.37	74.253	
15,900.00	7,870.00	8,304.97	8,201.09	121.32	33.30	96.87	-164.76	-915.80	6,353.74	6,269.38	84.36	75.315	
16,000.00	7,870.00	8,307.96	8,204.08	122.98	33.31	96.93	-164.89	-915.69	6,443.26	6,358.90	84.36	76.382	
16,100.00	7,870.00	8,310.94	8,207.05	124.65	33.32	96.99	-165.01	-915.58	6,533.08	6,448.73	84.35	77.452	
16,200.00	7,870.00	8,313.90	8,210.01	126.32	33.33	97.05	-165.13	-915.47	6,623.19	6,538.84	84.34	78.525	
16,300.00	7,870.00	8,316.85	8,212.96	127.99	33.34	97.11	-165.25	-915.35	6,713.58	6,629.24	84.34	79.602	
16,400.00	7,870.00	8,319.79	8,215.90	129.66	33.35	97.17	-165.37	-915.25	6,804.23	6,719.90	84.33	80.682	
16,500.00	7,870.00	8,322.72	8,218.82	131.33	33.35	97.23	-165.49	-915.14	6,895.15	6,810.82	84.33	81.765	
16,600.00	7,870.00	8,325.63	8,221.73	133.01	33.36	97.28	-165.61	-915.03	6,986.31	6,901.98	84.32	82.851	
16,700.00	7,870.00	8,328.53	8,224.63	134.69	33.37	97.34	-165.72	-914.93	7,077.70	6,993.38	84.32	83.939	
16,800.00	7,870.00	8,331.42	8,227.51	136.37	33.38	97.40	-165.84	-914.82	7,169.33	7,085.01	84.32	85.030	
16,900.00	7,870.00	8,334.30	8,230.38	138.06	33.39	97.46	-165.96	-914.72	7,261.17	7,176.86	84.31	86.122	
17,000.00	7,870.00	8,337.17	8,233.25	139.74	33.39	97.51	-166.07	-914.61	7,353.23	7,268.92	84.31	87.217	
17,100.00	7,870.00	8,340.02	8,236.09	141.43	33.40	97.57	-166.19	-914.51	7,445.49	7,361.18	84.31	88.314	
17,200.00	7,870.00	8,342.86	8,238.93	143.12	33.41	97.63	-166.30	-914.41	7,537.94	7,453.63	84.31	89.412	
17,300.00	7,870.00	8,345.69	8,241.76	144.81	33.42	97.68	-166.41	-914.31	7,630.58	7,546.28	84.31	90.512	
17,400.00	7,870.00	8,348.51	8,244.57	146.50	33.43	97.74	-166.52	-914.21	7,723.41	7,639.10	84.31	91.613	
17,500.00	7,870.00	8,358.00	8,254.05	148.19	33.45	97.93	-166.90	-913.88	7,816.41	7,732.10	84.31	92.706	
17,600.00	7,870.00	8,358.00	8,254.05	149.89	33.45	97.93	-166.90	-913.88	7,909.58	7,825.27	84.31	93.813	
17,700.00	7,870.00	8,358.00	8,254.05	151.59	33.45	97.93	-166.90	-913.88	8,002.91	7,918.60	84.31	94.922	
17,800.00	7,870.00	8,358.00	8,254.05	153.29	33.45	97.93	-166.90	-913.88	8,096.41	8,012.10	84.31	96.031	
17,900.00	7,870.00	8,358.00	8,254.05	154.99	33.45	97.93	-166.90	-913.88	8,190.05	8,105.74	84.31	97.141	
18,000.00	7,870.00	8,358.00	8,254.05	156.69	33.45	97.93	-166.90	-913.88	8,283.85	8,199.53	84.31	98.252	
18,100.00	7,870.00	8,358.00	8,254.05	158.39	33.45	97.93	-166.90	-913.88	8,377.78	8,293.47	84.31	99.363	
18,200.00	7,870.00	8,358.00	8,254.05	160.09	33.45	97.93	-166.90	-913.88	8,471.86	8,387.54	84.32	100.475	
18,300.00	7,870.00	8,371.46	8,267.49	161.80	33.49	98.20	-167.43	-913.42	8,566.05	8,481.72	84.34	101.567	
18,400.00	7,870.00	8,373.79	8,269.82	163.51	33.50	98.24	-167.51	-913.34	8,660.39	8,576.04	84.35	102.676	
18,455.45	7,870.00	8,375.07	8,271.10	164.45	33.50	98.27	-167.56	-913.30	8,712.75	8,628.40	84.35	103.291	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-21.15	217.84	-84.28	233.79				
100.00	100.00	88.19	88.19	0.13	0.15	-21.05	218.31	-84.01	233.93	233.65	0.28	837.762	ES
200.00	200.00	182.17	182.15	0.49	0.39	-20.79	220.10	-83.55	235.55	234.67	0.88	266.922	
300.00	300.00	273.16	273.00	0.85	0.72	-20.89	224.50	-85.69	240.90	239.32	1.58	152.706	
400.00	400.00	364.95	364.38	1.21	1.06	-21.63	230.74	-91.49	249.54	247.27	2.27	109.962	
500.00	500.00	455.85	454.53	1.57	1.42	-22.61	239.12	-99.60	261.45	258.49	2.96	88.203	
600.00	600.00	545.90	543.40	1.93	1.81	-23.63	249.84	-109.31	276.66	273.01	3.65	75.731	
700.00	700.00	634.18	630.04	2.29	2.21	-24.57	262.85	-120.19	295.18	290.84	4.33	68.097	
800.00	800.00	721.38	714.93	2.64	2.64	-25.53	278.17	-132.86	317.27	312.26	5.01	63.331	
900.00	900.00	807.49	798.08	3.00	3.10	-26.60	294.92	-147.72	342.41	336.73	5.68	60.296	
1,000.00	1,000.00	891.40	878.24	3.36	3.59	-27.64	313.46	-164.17	371.08	364.74	6.34	58.557	
1,100.00	1,100.00	982.91	965.03	3.72	4.15	-28.73	335.01	-183.61	401.94	394.91	7.03	57.162	
1,200.00	1,200.00	1,077.34	1,054.62	4.08	4.75	-29.71	357.01	-203.75	432.78	425.02	7.76	55.774	
1,300.00	1,300.00	1,166.85	1,139.25	4.44	5.32	-30.51	378.74	-223.18	464.74	456.28	8.45	54.968	
1,400.00	1,399.98	1,258.45	1,225.66	4.79	5.93	-73.63	401.88	-242.89	497.05	487.89	9.16	54.260	
1,500.00	1,499.84	1,345.93	1,307.99	5.15	6.52	-74.05	424.35	-262.12	529.20	519.37	9.83	53.822	
1,600.00	1,599.45	1,425.87	1,382.64	5.51	7.08	-74.55	446.23	-280.53	562.65	552.21	10.45	53.851	
1,700.00	1,698.70	1,503.44	1,454.37	5.87	7.65	-75.07	469.36	-298.86	597.92	586.87	11.05	54.108	
1,800.00	1,797.47	1,578.25	1,522.77	6.24	8.23	-75.70	492.78	-318.06	635.15	623.51	11.64	54.559	
1,900.00	1,895.62	1,671.61	1,607.57	6.63	8.98	-76.92	522.01	-343.95	673.44	661.03	12.42	54.241	
2,000.00	1,993.06	1,761.68	1,689.64	7.04	9.70	-78.18	549.50	-368.91	711.12	697.93	13.19	53.922	
2,100.00	2,089.64	1,850.25	1,770.30	7.48	10.42	-79.55	575.86	-394.27	749.08	735.10	13.98	53.578	
2,200.00	2,185.27	1,935.01	1,847.45	7.94	11.11	-80.92	600.57	-419.21	787.62	772.84	14.78	53.278	
2,300.00	2,279.82	2,026.71	1,930.86	8.45	11.85	-82.47	627.55	-446.08	826.93	811.24	15.70	52.677	
2,400.00	2,373.17	2,133.95	2,029.08	8.99	12.71	-84.39	658.68	-475.78	865.69	848.89	16.80	51.514	
2,500.00	2,465.21	2,231.22	2,118.95	9.58	13.45	-86.03	686.35	-500.68	903.47	885.59	17.88	50.521	
2,574.08	2,532.50	2,297.72	2,180.53	10.04	13.96	-87.09	705.35	-517.10	931.71	913.03	18.68	49.885	
2,600.00	2,555.89	2,320.63	2,201.75	10.21	14.13	-87.66	711.93	-522.69	941.70	922.74	18.96	49.669	
2,700.00	2,646.16	2,406.99	2,281.79	10.88	14.78	-89.73	736.57	-543.76	980.94	960.88	20.05	48.916	
2,800.00	2,736.44	2,496.10	2,364.51	11.57	15.45	-91.75	761.31	-565.82	1,021.20	1,000.00	21.20	48.174	
2,900.00	2,826.71	2,582.80	2,445.09	12.27	16.09	-93.58	785.33	-586.95	1,062.17	1,039.83	22.34	47.542	
3,000.00	2,916.98	2,667.93	2,524.15	13.00	16.73	-95.23	809.27	-607.54	1,104.09	1,080.61	23.49	47.007	
3,100.00	3,007.25	2,753.78	2,603.92	13.73	17.37	-96.80	833.14	-628.44	1,146.82	1,122.17	24.65	46.521	
3,200.00	3,097.52	2,842.04	2,686.03	14.48	18.02	-98.34	857.14	-650.14	1,190.21	1,164.37	25.85	46.052	
3,300.00	3,187.80	2,933.84	2,771.65	15.23	18.69	-99.85	881.54	-672.56	1,233.90	1,206.82	27.08	45.573	
3,400.00	3,278.07	3,021.68	2,853.77	15.99	19.33	-101.23	904.28	-693.90	1,277.85	1,249.58	28.27	45.202	
3,500.00	3,368.34	3,101.47	2,928.36	16.76	19.91	-102.43	924.68	-713.53	1,322.53	1,293.14	29.39	44.998	
3,600.00	3,458.61	3,176.32	2,998.05	17.54	20.46	-103.45	944.74	-732.04	1,368.27	1,337.81	30.47	44.912	
3,700.00	3,548.89	3,265.67	3,080.96	18.32	21.13	-104.54	969.89	-753.91	1,414.69	1,383.00	31.69	44.637	
3,800.00	3,639.16	3,340.66	3,150.50	19.10	21.70	-105.40	991.11	-772.30	1,461.58	1,428.80	32.78	44.593	
3,900.00	3,729.43	3,427.58	3,231.03	19.89	22.36	-106.37	1,015.36	-794.23	1,509.28	1,475.30	33.98	44.416	
4,000.00	3,819.70	3,519.21	3,316.11	20.69	23.04	-107.33	1,040.65	-816.97	1,556.86	1,521.63	35.23	44.189	
4,100.00	3,909.98	3,608.46	3,399.12	21.48	23.71	-108.22	1,064.97	-839.00	1,604.51	1,568.05	36.45	44.013	
4,200.00	4,000.25	3,700.68	3,485.04	22.28	24.39	-109.10	1,089.65	-861.62	1,652.17	1,614.47	37.71	43.818	
4,300.00	4,090.52	3,838.18	3,613.83	23.08	25.37	-110.34	1,125.58	-893.65	1,699.06	1,659.66	39.40	43.122	
4,400.00	4,180.79	3,899.91	3,671.85	23.88	25.81	-110.87	1,141.60	-907.37	1,745.03	1,704.69	40.34	43.256	
4,500.00	4,271.06	3,958.06	3,726.17	24.69	26.23	-111.33	1,157.29	-920.94	1,792.46	1,751.22	41.24	43.468	
4,600.00	4,361.34	4,023.00	3,786.44	25.49	26.71	-111.82	1,175.20	-937.20	1,841.58	1,799.39	42.20	43.644	
4,700.00	4,451.61	4,070.55	3,830.36	26.30	27.08	-112.17	1,188.32	-949.83	1,892.12	1,849.17	42.95	44.053	
4,800.00	4,541.88	4,132.04	3,887.04	27.11	27.56	-112.62	1,204.93	-966.93	1,943.96	1,900.11	43.85	44.328	
4,900.00	4,632.15	4,201.12	3,950.50	27.92	28.11	-113.11	1,223.75	-986.70	1,996.70	1,951.86	44.84	44.530	
5,000.00	4,722.43	4,316.85	4,056.96	28.74	29.03	-113.87	1,255.55	-1,019.07	2,049.04	2,002.66	46.38	44.184	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,368.92	4,104.92	29.55	29.44	-114.21	1,269.52	-1,033.77	2,101.66	2,054.50	47.16	44.567	
5,200.00	4,902.97	4,427.98	4,159.11	30.37	29.91	-114.59	1,285.12	-1,051.32	2,155.59	2,107.57	48.02	44.893	
5,300.00	4,993.24	4,507.78	4,231.96	31.18	30.56	-115.06	1,307.08	-1,075.39	2,210.25	2,161.13	49.12	44.993	
5,400.00	5,083.51	4,693.51	4,403.05	32.00	32.02	-116.08	1,357.81	-1,126.75	2,262.66	2,211.17	51.49	43.947	
5,500.00	5,173.79	4,782.09	4,484.97	32.82	32.70	-116.48	1,383.08	-1,149.03	2,313.36	2,260.65	52.71	43.891	
5,600.00	5,264.06	4,836.58	4,535.20	33.63	33.13	-116.72	1,398.88	-1,163.07	2,364.76	2,311.22	53.54	44.171	
5,700.00	5,354.33	4,889.96	4,584.10	34.45	33.55	-116.94	1,414.73	-1,177.41	2,417.31	2,362.97	54.34	44.483	
5,800.00	5,444.60	4,941.98	4,631.66	35.27	33.98	-117.15	1,429.86	-1,192.10	2,471.01	2,415.89	55.12	44.827	
5,900.00	5,534.88	5,174.73	4,847.61	36.09	35.73	-118.20	1,491.77	-1,252.77	2,522.01	2,464.02	57.99	43.494	
6,000.00	5,625.15	5,524.03	5,180.97	36.91	37.91	-119.93	1,568.12	-1,322.48	2,569.52	2,508.00	61.52	41.769	
6,100.00	5,715.42	5,711.15	5,364.50	37.74	38.77	-121.09	1,594.15	-1,347.85	2,608.69	2,545.46	63.24	41.253	
6,200.00	5,805.69	6,200.00	5,520.63	38.56	40.61	-122.12	1,611.03	-1,364.33	2,644.68	2,578.89	65.78	40.203	
6,300.00	5,895.96	6,031.05	5,681.62	39.38	39.92	-123.23	1,623.10	-1,377.21	2,678.27	2,612.29	65.97	40.596	
6,400.00	5,986.24	6,195.36	5,845.48	40.20	40.37	-124.42	1,630.14	-1,387.02	2,710.46	2,643.25	67.21	40.331	
6,500.00	6,076.51	6,500.00	5,992.07	41.03	41.01	-125.55	1,631.48	-1,392.04	2,740.27	2,671.64	68.63	39.929	
6,600.00	6,166.78	6,490.50	6,140.50	41.85	40.97	-126.68	1,631.14	-1,393.56	2,768.05	2,698.74	69.30	39.942	
6,700.00	6,257.05	6,559.72	6,209.72	42.67	41.11	-127.18	1,631.51	-1,394.22	2,796.57	2,726.43	70.14	39.873	
6,800.00	6,347.33	6,632.62	6,282.60	43.50	41.26	-127.70	1,632.18	-1,395.39	2,826.06	2,755.09	70.97	39.820	
6,900.00	6,437.60	6,829.62	6,479.58	44.32	41.66	-129.07	1,633.69	-1,396.94	2,855.98	2,783.90	72.09	39.618	
7,000.00	6,527.87	6,905.95	6,555.89	45.15	41.80	-129.59	1,634.00	-1,395.73	2,883.30	2,810.39	72.91	39.546	
7,100.00	6,618.14	6,981.10	6,631.05	45.98	41.93	-130.10	1,634.03	-1,394.94	2,911.43	2,837.72	73.72	39.496	
7,200.00	6,708.41	7,053.22	6,703.16	46.80	42.07	-130.59	1,633.72	-1,394.58	2,940.42	2,865.92	74.50	39.470	
7,300.00	6,798.69	7,123.43	6,773.37	47.63	42.19	-131.06	1,633.23	-1,394.70	2,970.35	2,895.09	75.26	39.468	SF
7,400.00	6,888.96	7,195.89	6,845.83	48.45	42.33	-131.54	1,632.81	-1,395.28	3,001.17	2,925.16	76.02	39.480	
7,500.00	6,979.23	7,269.01	6,918.93	49.28	42.48	-132.02	1,632.47	-1,396.28	3,032.83	2,956.06	76.77	39.507	
7,600.00	7,069.50	7,341.92	6,991.84	50.11	42.63	-132.49	1,632.07	-1,397.67	3,065.28	2,987.77	77.51	39.549	
7,692.09	7,152.63	7,423.04	7,072.92	50.87	42.80	-133.00	1,631.53	-1,399.59	3,095.81	3,017.59	78.22	39.578	
7,700.00	7,159.79	7,433.15	7,083.03	50.93	42.82	-134.55	1,631.45	-1,399.81	3,098.43	3,020.14	78.29	39.576	
7,750.00	7,205.70	7,498.12	7,147.99	51.32	42.95	-145.70	1,630.82	-1,400.97	3,114.95	3,036.24	78.71	39.574	
7,800.00	7,252.52	7,530.98	7,180.85	51.66	43.02	-159.30	1,630.43	-1,401.58	3,131.54	3,052.56	78.99	39.647	
7,850.00	7,299.89	7,570.48	7,220.33	51.96	43.10	-175.37	1,629.89	-1,402.37	3,148.13	3,068.90	79.23	39.733	
7,900.00	7,347.44	7,600.35	7,250.19	52.20	43.17	167.53	1,629.52	-1,403.07	3,164.65	3,085.24	79.40	39.855	
7,950.00	7,394.83	7,628.08	7,277.91	52.39	43.23	151.52	1,629.40	-1,403.91	3,181.08	3,101.56	79.52	40.002	
8,000.00	7,441.68	7,655.32	7,305.13	52.53	43.29	138.04	1,629.50	-1,404.92	3,197.32	3,117.72	79.60	40.167	
8,050.00	7,487.65	7,978.08	7,627.61	52.62	43.93	129.09	1,626.30	-1,402.95	3,210.56	3,130.10	80.46	39.904	
8,100.00	7,532.37	8,015.30	7,664.79	52.67	44.00	121.24	1,625.82	-1,401.23	3,221.92	3,141.41	80.51	40.021	
8,150.00	7,575.52	8,051.20	7,700.66	52.67	44.06	115.19	1,625.46	-1,399.66	3,232.84	3,152.32	80.52	40.150	
8,200.00	7,616.76	8,085.85	7,735.28	52.63	44.12	110.47	1,625.19	-1,398.24	3,243.29	3,162.79	80.50	40.288	
8,250.00	7,655.77	8,118.55	7,767.95	52.55	44.18	106.74	1,625.00	-1,396.97	3,253.27	3,172.82	80.45	40.437	
8,300.00	7,692.27	8,150.71	7,800.09	52.44	44.24	103.75	1,624.87	-1,395.79	3,262.77	3,182.39	80.38	40.593	
8,350.00	7,725.97	8,182.97	7,832.33	52.29	44.30	101.36	1,624.82	-1,394.63	3,271.77	3,191.49	80.28	40.755	
8,400.00	7,756.62	8,212.12	7,861.46	52.12	44.36	99.41	1,624.86	-1,393.60	3,280.28	3,200.13	80.15	40.924	
8,450.00	7,783.98	8,238.62	7,887.94	51.92	44.41	97.79	1,624.95	-1,392.68	3,288.34	3,208.33	80.01	41.101	
8,500.00	7,807.85	8,263.56	7,912.87	51.70	44.46	96.48	1,625.08	-1,391.81	3,295.95	3,216.10	79.84	41.281	
8,550.00	7,828.05	8,284.55	7,933.85	51.45	44.50	95.36	1,625.20	-1,391.07	3,303.13	3,223.47	79.66	41.468	
8,600.00	7,844.41	8,301.45	7,950.73	51.20	44.54	94.41	1,625.30	-1,390.47	3,309.91	3,230.46	79.45	41.661	
8,650.00	7,856.82	8,314.13	7,963.40	50.93	44.56	93.60	1,625.39	-1,390.02	3,316.29	3,237.06	79.23	41.859	
8,700.00	7,865.18	8,322.52	7,971.79	50.65	44.58	92.89	1,625.45	-1,389.72	3,322.28	3,243.29	78.99	42.061	
8,750.00	7,869.43	8,326.58	7,975.85	50.36	44.59	92.29	1,625.48	-1,389.57	3,327.87	3,249.13	78.73	42.267	
8,776.25	7,870.00	8,326.97	7,976.24	50.21	44.59	92.01	1,625.48	-1,389.56	3,330.63	3,252.03	78.60	42.376	
8,800.00	7,870.00	8,326.79	7,976.05	50.08	44.59	92.01	1,625.48	-1,389.57	3,333.16	3,254.69	78.47	42.476	
8,900.00	7,870.00	8,326.01	7,975.27	49.53	44.58	91.99	1,625.48	-1,389.59	3,345.63	3,267.67	77.96	42.914	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,325.23	7,974.50	49.01	44.58	91.98	1,625.47	-1,389.62	3,361.03	3,283.56	77.47	43.383	
9,100.00	7,870.00	8,324.46	7,973.73	48.52	44.58	91.97	1,625.47	-1,389.65	3,379.33	3,302.31	77.01	43.879	
9,200.00	7,870.00	8,323.70	7,972.97	48.06	44.58	91.95	1,625.46	-1,389.68	3,400.46	3,323.88	76.58	44.403	
9,300.00	7,870.00	8,322.94	7,972.21	47.63	44.58	91.94	1,625.45	-1,389.70	3,424.39	3,348.21	76.18	44.953	
9,400.00	7,870.00	8,322.19	7,971.46	47.22	44.58	91.93	1,625.45	-1,389.73	3,451.05	3,375.25	75.80	45.525	
9,500.00	7,870.00	8,321.44	7,970.71	46.83	44.58	91.91	1,625.44	-1,389.76	3,480.38	3,404.92	75.46	46.120	
9,600.00	7,870.00	8,320.69	7,969.96	46.48	44.57	91.90	1,625.44	-1,389.78	3,512.32	3,437.16	75.15	46.736	
9,700.00	7,870.00	8,319.95	7,969.23	46.14	44.57	91.89	1,625.43	-1,389.81	3,546.78	3,471.91	74.87	47.370	
9,800.00	7,870.00	8,319.22	7,968.49	45.83	44.57	91.88	1,625.43	-1,389.84	3,583.71	3,509.08	74.63	48.022	
9,900.00	7,870.00	8,318.49	7,967.76	45.54	44.57	91.86	1,625.42	-1,389.86	3,623.02	3,548.61	74.41	48.691	
10,000.00	7,870.00	8,317.77	7,967.04	45.27	44.57	91.85	1,625.42	-1,389.89	3,664.64	3,590.41	74.22	49.374	
10,100.00	7,870.00	8,317.05	7,966.32	45.03	44.57	91.84	1,625.41	-1,389.92	3,708.48	3,634.42	74.06	50.071	
10,200.00	7,870.00	8,316.33	7,965.61	44.82	44.57	91.83	1,625.41	-1,389.94	3,754.48	3,680.55	73.94	50.780	
10,300.00	7,870.00	8,315.62	7,964.90	44.66	44.56	91.81	1,625.40	-1,389.97	3,802.56	3,728.72	73.83	51.502	
10,400.00	7,870.00	8,314.92	7,964.19	44.56	44.56	91.80	1,625.40	-1,389.99	3,852.63	3,778.87	73.76	52.234	
10,500.00	7,870.00	8,314.22	7,963.49	44.58	44.56	91.79	1,625.39	-1,390.02	3,904.61	3,830.91	73.70	52.977	
10,600.00	7,870.00	8,313.52	7,962.80	44.82	44.56	91.78	1,625.39	-1,390.04	3,958.45	3,884.77	73.67	53.729	
10,700.00	7,870.00	8,312.83	7,962.10	45.36	44.56	91.77	1,625.38	-1,390.07	4,014.05	3,940.38	73.67	54.490	
10,800.00	7,870.00	8,312.14	7,961.42	46.15	44.56	91.75	1,625.38	-1,390.09	4,071.35	3,997.67	73.68	55.259	
10,900.00	7,870.00	8,311.46	7,960.73	47.09	44.56	91.74	1,625.37	-1,390.12	4,130.27	4,056.57	73.71	56.036	
11,000.00	7,870.00	8,310.78	7,960.06	48.13	44.55	91.73	1,625.37	-1,390.14	4,190.76	4,117.00	73.75	56.821	
11,100.00	7,870.00	8,310.10	7,959.38	49.22	44.55	91.72	1,625.36	-1,390.16	4,252.73	4,178.92	73.81	57.613	
11,200.00	7,870.00	8,309.43	7,958.71	50.37	44.55	91.71	1,625.36	-1,390.19	4,316.13	4,242.24	73.89	58.412	
11,300.00	7,870.00	8,308.77	7,958.05	51.55	44.55	91.70	1,625.35	-1,390.21	4,380.90	4,306.92	73.98	59.218	
11,400.00	7,870.00	8,308.10	7,957.38	52.76	44.55	91.68	1,625.35	-1,390.23	4,446.97	4,372.90	74.08	60.030	
11,500.00	7,870.00	8,307.45	7,956.73	54.00	44.55	91.67	1,625.35	-1,390.26	4,514.30	4,440.11	74.19	60.849	
11,600.00	7,870.00	8,306.79	7,956.07	55.27	44.55	91.66	1,625.34	-1,390.28	4,582.81	4,508.50	74.31	61.673	
11,700.00	7,870.00	8,306.14	7,955.43	56.56	44.55	91.65	1,625.34	-1,390.30	4,652.46	4,578.03	74.44	62.504	
11,800.00	7,870.00	8,305.50	7,954.78	57.88	44.54	91.64	1,625.33	-1,390.33	4,723.21	4,648.64	74.57	63.340	
11,900.00	7,870.00	8,304.86	7,954.14	59.21	44.54	91.63	1,625.33	-1,390.35	4,794.99	4,720.28	74.71	64.182	
12,000.00	7,870.00	8,304.22	7,953.50	60.57	44.54	91.62	1,625.32	-1,390.37	4,867.78	4,792.92	74.86	65.029	
12,100.00	7,870.00	8,303.59	7,952.87	61.94	44.54	91.61	1,625.32	-1,390.40	4,941.51	4,866.50	75.01	65.882	
12,200.00	7,870.00	8,302.96	7,952.24	63.33	44.54	91.60	1,625.31	-1,390.42	5,016.15	4,940.99	75.16	66.740	
12,300.00	7,870.00	8,302.33	7,951.61	64.74	44.54	91.58	1,625.31	-1,390.44	5,091.67	5,016.35	75.32	67.603	
12,400.00	7,870.00	8,301.71	7,950.99	66.16	44.54	91.57	1,625.31	-1,390.46	5,168.01	5,092.53	75.48	68.471	
12,500.00	7,870.00	8,301.09	7,950.38	67.59	44.54	91.56	1,625.30	-1,390.48	5,245.15	5,169.51	75.64	69.344	
12,600.00	7,870.00	8,300.48	7,949.76	69.04	44.53	91.55	1,625.30	-1,390.51	5,323.05	5,247.25	75.80	70.222	
12,700.00	7,870.00	8,299.87	7,949.15	70.51	44.53	91.54	1,625.29	-1,390.53	5,401.68	5,325.71	75.97	71.104	
12,800.00	7,870.00	8,299.26	7,948.54	71.98	44.53	91.53	1,625.29	-1,390.55	5,481.01	5,404.87	76.13	71.991	
12,900.00	7,870.00	8,298.66	7,947.94	73.47	44.53	91.52	1,625.29	-1,390.57	5,561.00	5,484.70	76.30	72.882	
13,000.00	7,870.00	8,298.06	7,947.34	74.96	44.53	91.51	1,625.28	-1,390.59	5,641.63	5,565.16	76.47	73.778	
13,100.00	7,870.00	8,297.46	7,946.75	76.47	44.53	91.50	1,625.28	-1,390.61	5,722.87	5,646.23	76.63	74.677	
13,200.00	7,870.00	8,296.87	7,946.15	77.99	44.53	91.49	1,625.28	-1,390.63	5,804.70	5,727.89	76.80	75.581	
13,300.00	7,870.00	8,296.28	7,945.57	79.51	44.53	91.48	1,625.27	-1,390.66	5,887.08	5,810.12	76.97	76.489	
13,400.00	7,870.00	8,295.69	7,944.98	81.05	44.52	91.47	1,625.27	-1,390.68	5,970.01	5,892.88	77.13	77.400	
13,500.00	7,870.00	8,295.11	7,944.40	82.59	44.52	91.46	1,625.26	-1,390.70	6,053.45	5,976.16	77.30	78.315	
13,600.00	7,870.00	8,294.53	7,943.82	84.14	44.52	91.45	1,625.26	-1,390.72	6,137.39	6,059.93	77.46	79.233	
13,700.00	7,870.00	8,293.96	7,943.25	85.70	44.52	91.44	1,625.26	-1,390.74	6,221.80	6,144.18	77.62	80.155	
13,800.00	7,870.00	8,293.38	7,942.67	87.26	44.52	91.43	1,625.25	-1,390.76	6,306.67	6,228.89	77.78	81.080	
13,900.00	7,870.00	8,292.82	7,942.11	88.83	44.52	91.42	1,625.25	-1,390.78	6,391.97	6,314.03	77.94	82.009	
14,000.00	7,870.00	8,292.25	7,941.54	90.41	44.52	91.41	1,625.25	-1,390.80	6,477.70	6,399.60	78.10	82.940	
14,100.00	7,870.00	8,291.69	7,940.98	92.00	44.52	91.40	1,625.24	-1,390.82	6,563.83	6,485.57	78.26	83.874	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	8,291.13	7,940.42	93.59	44.52	91.39	1,625.24	-1,390.84	6,650.35	6,571.93	78.41	84.811	
14,300.00	7,870.00	8,290.57	7,939.87	95.18	44.51	91.38	1,625.23	-1,390.86	6,737.24	6,658.67	78.57	85.751	
14,400.00	7,870.00	8,290.02	7,939.31	96.79	44.51	91.37	1,625.23	-1,390.88	6,824.49	6,745.77	78.72	86.693	
14,500.00	7,870.00	8,289.47	7,938.76	98.39	44.51	91.36	1,625.23	-1,390.90	6,912.08	6,833.21	78.87	87.638	
14,600.00	7,870.00	8,288.93	7,938.22	100.00	44.51	91.35	1,625.22	-1,390.92	7,000.01	6,920.99	79.02	88.585	
14,700.00	7,870.00	8,288.38	7,937.68	101.62	44.51	91.34	1,625.22	-1,390.94	7,088.26	7,009.09	79.17	89.534	
14,800.00	7,870.00	8,287.84	7,937.14	103.24	44.51	91.33	1,625.22	-1,390.95	7,176.81	7,097.50	79.31	90.485	
14,900.00	7,870.00	8,287.31	7,936.60	104.87	44.51	91.32	1,625.21	-1,390.97	7,265.67	7,186.21	79.46	91.439	
15,000.00	7,870.00	8,286.77	7,936.07	106.50	44.51	91.32	1,625.21	-1,390.99	7,354.81	7,275.20	79.60	92.394	
15,100.00	7,870.00	8,286.24	7,935.54	108.13	44.51	91.31	1,625.21	-1,391.01	7,444.22	7,364.48	79.74	93.351	
15,200.00	7,870.00	8,285.71	7,935.01	109.77	44.51	91.30	1,625.20	-1,391.03	7,533.90	7,454.02	79.88	94.310	
15,300.00	7,870.00	8,285.19	7,934.48	111.41	44.50	91.29	1,625.20	-1,391.05	7,623.84	7,543.82	80.02	95.270	
15,400.00	7,870.00	8,284.67	7,933.96	113.05	44.50	91.28	1,625.20	-1,391.07	7,714.02	7,633.86	80.16	96.232	
15,500.00	7,870.00	8,284.15	7,933.44	114.70	44.50	91.27	1,625.20	-1,391.08	7,804.45	7,724.15	80.30	97.196	
15,600.00	7,870.00	8,283.63	7,932.93	116.35	44.50	91.26	1,625.19	-1,391.10	7,895.10	7,814.67	80.43	98.161	
15,700.00	7,870.00	8,283.12	7,932.42	118.00	44.50	91.25	1,625.19	-1,391.12	7,985.98	7,905.42	80.56	99.127	
15,800.00	7,870.00	8,282.61	7,931.91	119.66	44.50	91.24	1,625.19	-1,391.14	8,077.08	7,996.38	80.69	100.094	
15,900.00	7,870.00	8,282.10	7,931.40	121.32	44.50	91.23	1,625.18	-1,391.16	8,168.38	8,087.55	80.83	101.062	
16,000.00	7,870.00	8,281.60	7,930.89	122.98	44.50	91.23	1,625.18	-1,391.17	8,259.88	8,178.93	80.95	102.032	
16,100.00	7,870.00	8,281.10	7,930.39	124.65	44.50	91.22	1,625.18	-1,391.19	8,351.58	8,270.50	81.08	103.002	
16,200.00	7,870.00	8,280.60	7,929.89	126.32	44.49	91.21	1,625.17	-1,391.21	8,443.47	8,362.26	81.21	103.973	
16,300.00	7,870.00	8,280.10	7,929.40	127.99	44.49	91.20	1,625.17	-1,391.23	8,535.54	8,454.20	81.33	104.945	
16,400.00	7,870.00	8,279.61	7,928.90	129.66	44.49	91.19	1,625.17	-1,391.25	8,627.78	8,546.33	81.46	105.918	
16,500.00	7,870.00	8,279.11	7,928.41	131.33	44.49	91.18	1,625.17	-1,391.26	8,720.20	8,638.62	81.58	106.891	
16,600.00	7,870.00	8,278.63	7,927.93	133.01	44.49	91.17	1,625.16	-1,391.28	8,812.78	8,731.08	81.70	107.865	
16,700.00	7,870.00	8,278.14	7,927.44	134.69	44.49	91.17	1,625.16	-1,391.30	8,905.52	8,823.70	81.82	108.839	
16,800.00	7,870.00	8,277.66	7,926.96	136.37	44.49	91.16	1,625.16	-1,391.31	8,998.42	8,916.48	81.94	109.814	
16,900.00	7,870.00	8,277.18	7,926.48	138.06	44.49	91.15	1,625.15	-1,391.33	9,091.47	9,009.41	82.06	110.789	
17,000.00	7,870.00	8,276.70	7,926.00	139.74	44.49	91.14	1,625.15	-1,391.35	9,184.67	9,102.49	82.18	111.765	
17,100.00	7,870.00	8,276.22	7,925.52	141.43	44.49	91.13	1,625.15	-1,391.36	9,278.00	9,195.71	82.30	112.741	
17,200.00	7,870.00	8,275.75	7,925.05	143.12	44.49	91.12	1,625.15	-1,391.38	9,371.48	9,289.07	82.41	113.717	
17,300.00	7,870.00	8,275.28	7,924.58	144.81	44.48	91.12	1,625.14	-1,391.40	9,465.08	9,382.56	82.53	114.693	
17,400.00	7,870.00	8,274.81	7,924.11	146.50	44.48	91.11	1,625.14	-1,391.41	9,558.82	9,476.18	82.64	115.669	
17,500.00	7,870.00	8,274.35	7,923.65	148.19	44.48	91.10	1,625.14	-1,391.43	9,652.68	9,569.93	82.75	116.645	
17,600.00	7,870.00	8,273.88	7,923.19	149.89	44.48	91.09	1,625.14	-1,391.45	9,746.67	9,663.80	82.86	117.622	
17,700.00	7,870.00	8,273.42	7,922.72	151.59	44.48	91.08	1,625.13	-1,391.46	9,840.77	9,757.79	82.98	118.598	
17,800.00	7,870.00	8,272.96	7,922.27	153.29	44.48	91.08	1,625.13	-1,391.48	9,934.99	9,851.90	83.09	119.574	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-16.54	217.84	-64.68	227.46				
100.00	100.00	89.25	89.25	0.13	0.14	-16.53	218.00	-64.69	227.39	227.11	0.28	813.381	CC, ES
200.00	200.00	187.00	186.99	0.49	0.40	-16.41	218.75	-64.43	228.06	227.17	0.89	255.299	
300.00	300.00	282.05	281.98	0.85	0.75	-15.73	221.58	-62.42	230.34	228.75	1.60	144.227	
400.00	400.00	377.16	376.86	1.21	1.10	-14.56	227.08	-58.97	234.98	232.67	2.30	101.945	
500.00	500.00	470.80	469.99	1.57	1.45	-12.76	234.98	-53.23	241.76	238.75	3.02	80.185	
600.00	600.00	561.99	560.20	1.93	1.82	-10.50	245.81	-45.58	251.77	248.04	3.73	67.573	
700.00	700.00	651.44	648.18	2.29	2.21	-8.17	259.56	-37.26	265.53	261.10	4.43	59.931	
800.00	800.00	744.02	738.75	2.64	2.64	-5.86	276.63	-28.40	282.77	277.63	5.15	54.943	
900.00	900.00	836.08	828.53	3.00	3.08	-3.77	294.91	-19.42	301.87	296.02	5.86	51.543	
1,000.00	1,000.00	927.14	916.97	3.36	3.54	-2.00	314.88	-11.02	323.43	316.87	6.56	49.301	
1,100.00	1,100.00	1,023.69	1,010.52	3.72	4.03	-0.46	337.26	-2.69	346.51	339.23	7.28	47.593	
1,200.00	1,200.00	1,121.95	1,105.86	4.08	4.54	0.91	359.50	5.69	369.26	361.24	8.02	46.032	
1,300.00	1,300.00	1,222.36	1,203.29	4.44	5.06	2.29	381.83	15.24	391.85	383.08	8.78	44.654	
1,400.00	1,399.98	1,328.30	1,306.47	4.79	5.59	-39.35	403.87	24.73	411.83	402.27	9.56	43.094	
1,500.00	1,499.84	1,416.86	1,392.79	5.15	6.04	-38.67	422.19	32.19	429.10	418.87	10.23	41.952	
1,600.00	1,599.45	1,510.27	1,483.37	5.51	6.54	-38.21	443.40	40.69	445.76	434.82	10.94	40.747	
1,700.00	1,698.70	1,601.46	1,571.37	5.87	7.04	-37.84	465.05	50.72	460.95	449.30	11.65	39.574	
1,800.00	1,797.47	1,704.61	1,670.62	6.24	7.61	-37.60	490.13	63.39	474.13	461.67	12.46	38.059	
1,900.00	1,895.62	1,810.02	1,772.37	6.63	8.19	-37.68	514.49	76.28	483.32	470.03	13.30	36.345	
2,000.00	1,993.06	1,925.02	1,883.99	7.04	8.80	-38.17	538.62	89.75	487.55	473.34	14.22	34.298	
2,100.00	2,089.64	2,040.50	1,996.92	7.48	9.37	-39.16	559.48	101.78	486.05	470.91	15.14	32.108	
2,200.00	2,185.27	2,147.06	2,101.86	7.94	9.86	-40.74	575.92	110.28	479.17	463.14	16.03	29.892	
2,300.00	2,279.82	2,245.02	2,198.29	8.45	10.31	-42.42	590.61	119.32	469.62	452.71	16.91	27.766	
2,400.00	2,373.17	2,335.44	2,287.13	8.99	10.73	-44.25	604.86	128.29	458.71	440.90	17.81	25.751	
2,500.00	2,465.21	2,427.61	2,377.33	9.58	11.18	-46.40	621.09	138.10	447.68	428.89	18.79	23.828	
2,574.08	2,532.50	2,499.57	2,447.67	10.04	11.54	-48.36	634.18	145.73	438.86	419.28	19.58	22.408	
2,600.00	2,555.89	2,525.33	2,472.86	10.21	11.67	-49.06	638.83	148.47	435.63	415.75	19.88	21.915	
2,700.00	2,646.16	2,618.36	2,563.79	10.88	12.13	-51.68	655.78	158.43	423.98	402.97	21.01	20.179	
2,800.00	2,736.44	2,712.23	2,655.34	11.57	12.61	-54.44	674.00	168.33	414.53	392.32	22.21	18.663	
2,900.00	2,826.71	2,829.31	2,769.76	12.27	13.19	-58.02	695.08	181.23	404.88	381.28	23.60	17.155	
3,000.00	2,916.98	2,922.71	2,861.25	13.00	13.64	-60.90	709.63	193.14	393.54	368.63	24.91	15.796	
3,100.00	3,007.25	3,015.86	2,952.30	13.73	14.10	-63.85	725.26	205.05	384.45	358.18	26.28	14.631	
3,200.00	3,097.52	3,112.89	3,046.79	14.48	14.60	-66.83	742.66	218.61	377.14	349.45	27.69	13.618	
3,300.00	3,187.80	3,203.70	3,134.95	15.23	15.07	-69.56	760.05	231.76	371.81	342.70	29.11	12.774	
3,400.00	3,278.07	3,308.13	3,236.73	15.99	15.61	-73.11	779.22	244.99	367.72	337.10	30.62	12.008	
3,500.00	3,368.34	3,399.88	3,326.27	16.76	16.07	-76.35	795.76	256.26	364.88	332.80	32.07	11.376	
3,537.19	3,401.91	3,432.38	3,357.92	17.05	16.24	-77.48	802.02	260.18	364.60	332.00	32.60	11.184	
3,600.00	3,458.61	3,487.43	3,411.50	17.54	16.52	-79.43	813.13	266.23	365.39	331.91	33.48	10.914	
3,700.00	3,548.89	3,596.78	3,517.97	18.32	17.09	-83.25	834.62	278.76	367.10	332.08	35.02	10.483	
3,800.00	3,639.16	3,688.57	3,607.14	19.10	17.57	-86.26	853.12	290.36	369.67	333.26	36.41	10.154	
3,900.00	3,729.43	3,789.81	3,705.47	19.89	18.11	-89.51	873.27	303.49	373.04	335.21	37.83	9.862	
4,000.00	3,819.70	3,883.33	3,796.38	20.69	18.60	-92.51	891.87	315.05	378.02	338.87	39.15	9.656	
4,100.00	3,909.98	3,980.53	3,890.23	21.48	19.14	-95.16	913.40	328.36	384.42	343.95	40.47	9.500	
4,200.00	4,000.25	4,072.74	3,979.61	22.28	19.63	-97.80	933.25	339.29	392.80	351.11	41.69	9.422	
4,300.00	4,090.52	4,170.21	4,074.39	23.08	20.14	-100.66	953.44	349.71	402.68	359.79	42.89	9.389	SF
4,400.00	4,180.79	4,267.44	4,169.15	23.88	20.64	-103.50	972.98	359.38	413.90	369.89	44.02	9.403	
4,500.00	4,271.06	4,374.05	4,273.43	24.69	21.17	-106.69	992.19	370.44	424.89	379.76	45.13	9.414	
4,600.00	4,361.34	4,473.21	4,370.58	25.49	21.65	-109.65	1,008.30	382.03	435.10	388.99	46.11	9.436	
4,700.00	4,451.61	4,563.19	4,458.96	26.30	22.07	-112.33	1,022.33	391.34	447.44	400.50	46.94	9.533	
4,800.00	4,541.88	4,653.45	4,548.10	27.11	22.46	-115.20	1,034.45	398.65	462.40	414.77	47.63	9.708	
4,900.00	4,632.15	4,742.77	4,636.77	27.92	22.81	-118.24	1,043.63	404.16	479.76	431.60	48.15	9.963	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,829.20	4,722.87	28.74	23.12	-121.29	1,050.22	407.69	500.12	451.60	48.51	10.309	
5,100.00	4,812.70	4,916.69	4,810.20	29.55	23.40	-124.39	1,055.02	409.88	523.33	474.57	48.76	10.733	
5,200.00	4,902.97	5,005.40	4,898.86	30.37	23.66	-127.54	1,057.48	411.16	549.02	500.11	48.91	11.225	
5,300.00	4,993.24	5,096.88	4,990.32	31.18	23.91	-130.63	1,058.88	412.27	576.60	527.56	49.04	11.757	
5,400.00	5,083.51	5,184.61	5,078.05	32.00	24.15	-133.45	1,059.19	413.22	605.93	556.81	49.11	12.337	
5,500.00	5,173.79	5,261.76	5,155.20	32.82	24.34	-135.72	1,059.41	412.96	637.97	588.88	49.08	12.997	
5,600.00	5,264.06	5,348.50	5,241.92	33.63	24.57	-138.01	1,060.24	411.40	672.45	623.24	49.21	13.664	
5,700.00	5,354.33	5,440.47	5,333.87	34.45	24.80	-140.21	1,061.19	409.67	708.00	658.55	49.45	14.318	
5,800.00	5,444.60	5,532.18	5,425.57	35.27	25.04	-142.21	1,061.97	408.28	744.12	694.40	49.71	14.969	
5,900.00	5,534.88	5,617.51	5,510.88	36.09	25.26	-143.95	1,062.26	406.97	781.10	731.18	49.92	15.647	
6,000.00	5,625.15	5,707.22	5,600.58	36.91	25.49	-145.64	1,062.26	405.19	819.22	769.00	50.21	16.315	
6,100.00	5,715.42	5,797.54	5,690.88	37.74	25.72	-147.19	1,062.37	403.57	857.73	807.18	50.55	16.968	
6,200.00	5,805.69	5,893.83	5,787.16	38.56	25.98	-148.69	1,062.72	401.98	896.58	845.58	51.00	17.581	
6,300.00	5,895.96	5,980.99	5,874.31	39.38	26.21	-149.94	1,063.20	401.02	935.34	883.97	51.37	18.209	
6,400.00	5,986.24	6,071.67	5,964.98	40.20	26.46	-151.15	1,063.45	399.54	975.02	923.22	51.80	18.823	
6,500.00	6,076.51	6,166.99	6,060.29	41.03	26.72	-152.34	1,063.61	398.66	1,014.47	962.17	52.30	19.396	
6,600.00	6,166.78	6,252.95	6,146.26	41.85	26.95	-153.33	1,063.82	397.95	1,054.15	1,001.43	52.72	19.994	
6,700.00	6,257.05	6,340.03	6,233.32	42.67	27.19	-154.25	1,064.07	396.62	1,094.66	1,041.48	53.18	20.585	
6,800.00	6,347.33	6,433.69	6,326.97	43.50	27.45	-155.18	1,064.28	395.45	1,135.21	1,081.49	53.73	21.130	
6,900.00	6,437.60	6,531.01	6,424.29	44.32	27.71	-156.11	1,064.12	394.76	1,175.71	1,121.39	54.32	21.645	
7,000.00	6,527.87	6,628.42	6,521.69	45.15	27.98	-157.05	1,062.89	395.51	1,215.63	1,160.74	54.89	22.145	
7,100.00	6,618.14	6,718.16	6,611.41	45.98	28.22	-157.88	1,061.58	396.48	1,255.63	1,200.24	55.40	22.666	
7,200.00	6,708.41	6,807.77	6,701.01	46.80	28.46	-158.64	1,060.65	397.17	1,295.93	1,240.00	55.93	23.173	
7,300.00	6,798.69	6,902.40	6,795.64	47.63	28.73	-159.37	1,060.05	397.80	1,336.31	1,279.78	56.53	23.640	
7,400.00	6,888.96	6,999.42	6,892.66	48.45	29.01	-160.06	1,060.00	398.71	1,376.37	1,319.20	57.18	24.073	
7,500.00	6,979.23	7,091.34	6,984.57	49.28	29.28	-160.64	1,060.72	399.45	1,416.32	1,358.52	57.80	24.505	
7,600.00	7,069.50	7,187.50	7,080.73	50.11	29.57	-161.22	1,061.47	400.29	1,456.34	1,397.87	58.47	24.906	
7,692.09	7,152.63	7,287.01	7,180.22	50.87	29.88	-161.79	1,062.50	401.95	1,492.60	1,433.40	59.21	25.209	
7,700.00	7,159.79	7,295.79	7,188.99	50.93	29.91	-163.35	1,062.58	402.16	1,495.66	1,436.38	59.27	25.233	
7,750.00	7,205.70	7,347.34	7,240.52	51.32	30.07	-174.32	1,062.98	403.65	1,513.75	1,454.10	59.65	25.378	
7,800.00	7,252.52	7,392.83	7,285.99	51.66	30.21	172.43	1,063.19	405.05	1,529.89	1,469.93	59.97	25.512	
7,850.00	7,299.89	7,439.56	7,332.70	51.96	30.35	157.04	1,063.30	406.50	1,544.02	1,483.71	60.31	25.601	
7,900.00	7,347.44	7,487.68	7,380.79	52.20	30.50	140.91	1,063.65	407.84	1,556.01	1,495.33	60.68	25.643	
7,950.00	7,394.83	7,536.60	7,429.69	52.39	30.66	126.14	1,064.34	409.04	1,565.81	1,504.73	61.07	25.638	
8,000.00	7,441.68	7,586.39	7,479.46	52.53	30.82	114.17	1,065.17	410.25	1,573.36	1,511.87	61.49	25.587	
8,050.00	7,487.65	7,633.77	7,526.82	52.62	30.97	105.18	1,066.03	411.46	1,578.71	1,516.81	61.90	25.503	
8,100.00	7,532.37	7,678.77	7,571.79	52.67	31.11	98.68	1,066.72	412.67	1,582.00	1,519.69	62.31	25.390	
8,150.00	7,575.52	7,718.46	7,611.47	52.67	31.24	94.05	1,067.22	413.79	1,583.37	1,520.68	62.69	25.259	
8,200.00	7,616.76	7,751.82	7,644.82	52.63	31.34	90.76	1,067.55	414.62	1,583.12	1,520.09	63.03	25.119	
8,250.00	7,655.77	7,783.38	7,676.36	52.55	31.44	88.54	1,067.78	415.27	1,581.41	1,518.04	63.38	24.952	
8,300.00	7,692.27	7,814.59	7,707.58	52.44	31.54	87.16	1,067.95	415.79	1,578.40	1,514.64	63.76	24.756	
8,350.00	7,725.97	7,844.70	7,737.68	52.29	31.63	86.44	1,068.11	416.21	1,574.19	1,510.03	64.17	24.533	
8,400.00	7,756.62	7,872.01	7,764.99	52.12	31.72	86.18	1,068.25	416.53	1,568.99	1,504.40	64.59	24.293	
8,450.00	7,783.98	7,898.25	7,791.23	51.92	31.80	86.33	1,068.38	416.78	1,562.96	1,497.93	65.04	24.032	
8,500.00	7,807.85	7,925.95	7,818.92	51.70	31.88	86.90	1,068.51	417.10	1,556.26	1,490.72	65.54	23.744	
8,550.00	7,828.05	7,949.45	7,842.42	51.45	31.96	87.62	1,068.60	417.43	1,549.07	1,483.02	66.05	23.453	
8,600.00	7,844.41	7,968.54	7,861.51	51.20	32.01	88.44	1,068.66	417.74	1,541.61	1,475.05	66.55	23.163	
8,650.00	7,856.82	7,983.03	7,876.00	50.93	32.06	89.28	1,068.70	418.01	1,534.07	1,467.02	67.05	22.879	
8,700.00	7,865.18	7,992.79	7,885.76	50.65	32.09	90.09	1,068.72	418.20	1,526.64	1,459.10	67.54	22.604	
8,750.00	7,869.43	7,997.71	7,890.67	50.36	32.10	90.84	1,068.73	418.30	1,519.44	1,451.43	68.01	22.342	
8,776.25	7,870.00	7,998.33	7,891.29	50.21	32.11	91.19	1,068.73	418.31	1,515.79	1,447.54	68.25	22.210	
8,800.00	7,870.00	7,998.27	7,891.23	50.08	32.11	91.19	1,068.73	418.31	1,512.72	1,444.26	68.46	22.096	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,998.03	7,891.00	49.53	32.11	91.18	1,068.73	418.30	1,503.83	1,434.47	69.36	21.682	
8,984.07	7,870.00	7,997.83	7,890.79	49.09	32.10	91.18	1,068.73	418.30	1,501.48	1,431.37	70.10	21.418	
9,000.00	7,870.00	7,997.79	7,890.76	49.01	32.10	91.17	1,068.73	418.30	1,501.56	1,431.33	70.24	21.379	
9,100.00	7,870.00	7,997.55	7,890.51	48.52	32.10	91.16	1,068.73	418.29	1,505.95	1,434.88	71.07	21.190	
9,200.00	7,870.00	7,997.30	7,890.27	48.06	32.10	91.16	1,068.73	418.29	1,516.93	1,445.09	71.84	21.115	
9,300.00	7,870.00	7,997.06	7,890.02	47.63	32.10	91.15	1,068.73	418.28	1,534.36	1,461.82	72.53	21.154	
9,400.00	7,870.00	7,996.81	7,889.78	47.22	32.10	91.14	1,068.73	418.28	1,558.02	1,484.89	73.14	21.303	
9,500.00	7,870.00	7,996.56	7,889.53	46.83	32.10	91.13	1,068.73	418.27	1,587.65	1,514.00	73.65	21.557	
9,600.00	7,870.00	7,996.31	7,889.28	46.48	32.10	91.12	1,068.72	418.27	1,622.90	1,548.83	74.07	21.912	
9,700.00	7,870.00	7,996.06	7,889.02	46.14	32.10	91.11	1,068.72	418.26	1,663.43	1,589.03	74.39	22.360	
9,800.00	7,870.00	7,995.80	7,888.77	45.83	32.10	91.10	1,068.72	418.26	1,708.85	1,634.21	74.64	22.895	
9,900.00	7,870.00	7,995.55	7,888.51	45.54	32.10	91.09	1,068.72	418.25	1,758.79	1,683.98	74.81	23.510	
10,000.00	7,870.00	7,995.29	7,888.26	45.27	32.10	91.08	1,068.72	418.25	1,812.88	1,737.97	74.92	24.199	
10,100.00	7,870.00	7,995.03	7,888.00	45.03	32.10	91.07	1,068.72	418.24	1,870.76	1,795.79	74.97	24.955	
10,200.00	7,870.00	7,994.77	7,887.73	44.82	32.10	91.06	1,068.72	418.24	1,932.07	1,857.11	74.97	25.772	
10,300.00	7,870.00	7,994.50	7,887.47	44.66	32.09	91.05	1,068.72	418.23	1,996.52	1,921.59	74.93	26.644	
10,400.00	7,870.00	7,994.24	7,887.20	44.56	32.09	91.04	1,068.72	418.23	2,063.80	1,988.94	74.87	27.567	
10,500.00	7,870.00	7,993.97	7,886.93	44.58	32.09	91.03	1,068.72	418.22	2,133.65	2,058.88	74.77	28.535	
10,600.00	7,870.00	7,993.70	7,886.66	44.82	32.09	91.02	1,068.72	418.22	2,205.82	2,131.16	74.66	29.544	
10,700.00	7,870.00	7,993.43	7,886.39	45.36	32.09	91.01	1,068.72	418.21	2,280.09	2,205.56	74.54	30.589	
10,800.00	7,870.00	7,993.15	7,886.12	46.15	32.09	91.00	1,068.72	418.20	2,356.27	2,281.87	74.40	31.669	
10,900.00	7,870.00	7,992.88	7,885.84	47.09	32.09	90.99	1,068.72	418.20	2,434.17	2,359.91	74.26	32.778	
11,000.00	7,870.00	7,992.60	7,885.56	48.13	32.09	90.98	1,068.72	418.19	2,513.64	2,439.52	74.12	33.915	
11,100.00	7,870.00	7,992.32	7,885.28	49.22	32.09	90.96	1,068.72	418.19	2,594.53	2,520.56	73.97	35.076	
11,200.00	7,870.00	7,992.03	7,885.00	50.37	32.09	90.95	1,068.72	418.18	2,676.70	2,602.88	73.82	36.260	
11,300.00	7,870.00	7,991.75	7,884.72	51.55	32.09	90.94	1,068.72	418.18	2,760.06	2,686.39	73.67	37.464	
11,400.00	7,870.00	7,991.46	7,884.43	52.76	32.09	90.93	1,068.71	418.17	2,844.49	2,770.96	73.53	38.687	
11,500.00	7,870.00	7,991.17	7,884.14	54.00	32.08	90.92	1,068.71	418.17	2,929.90	2,856.51	73.38	39.926	
11,600.00	7,870.00	7,990.88	7,883.85	55.27	32.08	90.91	1,068.71	418.16	3,016.20	2,942.96	73.24	41.180	
11,700.00	7,870.00	7,990.59	7,883.55	56.56	32.08	90.90	1,068.71	418.15	3,103.33	3,030.22	73.11	42.448	
11,800.00	7,870.00	7,990.29	7,883.26	57.88	32.08	90.89	1,068.71	418.15	3,191.21	3,118.24	72.98	43.729	
11,900.00	7,870.00	7,989.99	7,882.96	59.21	32.08	90.88	1,068.71	418.14	3,279.79	3,206.94	72.85	45.021	
12,000.00	7,870.00	7,989.69	7,882.66	60.57	32.08	90.86	1,068.71	418.14	3,369.01	3,296.28	72.73	46.323	
12,100.00	7,870.00	7,989.39	7,882.36	61.94	32.08	90.85	1,068.71	418.13	3,458.81	3,386.20	72.61	47.635	
12,200.00	7,870.00	7,989.08	7,882.05	63.33	32.08	90.84	1,068.71	418.12	3,549.16	3,476.67	72.50	48.955	
12,300.00	7,870.00	7,988.78	7,881.74	64.74	32.08	90.83	1,068.71	418.12	3,640.02	3,567.63	72.39	50.284	
12,400.00	7,870.00	7,988.47	7,881.43	66.16	32.08	90.82	1,068.71	418.11	3,731.34	3,659.06	72.29	51.619	
12,500.00	7,870.00	7,988.15	7,881.12	67.59	32.07	90.81	1,068.71	418.11	3,823.10	3,750.91	72.19	52.961	
12,600.00	7,870.00	7,987.84	7,880.80	69.04	32.07	90.79	1,068.71	418.10	3,915.26	3,843.17	72.09	54.309	
12,700.00	7,870.00	7,987.52	7,880.49	70.51	32.07	90.78	1,068.71	418.09	4,007.80	3,935.80	72.00	55.662	
12,800.00	7,870.00	7,987.20	7,880.16	71.98	32.07	90.77	1,068.71	418.09	4,100.69	4,028.77	71.92	57.020	
12,900.00	7,870.00	7,986.87	7,879.84	73.47	32.07	90.76	1,068.70	418.08	4,193.90	4,122.07	71.84	58.382	
13,000.00	7,870.00	7,986.55	7,879.52	74.96	32.07	90.74	1,068.70	418.07	4,287.42	4,215.67	71.76	59.749	
13,100.00	7,870.00	7,986.22	7,879.19	76.47	32.07	90.73	1,068.70	418.07	4,381.23	4,309.55	71.68	61.119	
13,200.00	7,870.00	7,985.89	7,878.85	77.99	32.07	90.72	1,068.70	418.06	4,475.31	4,403.69	71.61	62.492	
13,300.00	7,870.00	7,985.55	7,878.52	79.51	32.07	90.71	1,068.70	418.06	4,569.63	4,498.09	71.55	63.868	
13,400.00	7,870.00	7,985.22	7,878.18	81.05	32.07	90.69	1,068.70	418.05	4,664.20	4,592.71	71.49	65.247	
13,500.00	7,870.00	7,984.88	7,877.84	82.59	32.06	90.68	1,068.70	418.04	4,758.98	4,687.56	71.43	66.628	
13,600.00	7,870.00	7,984.53	7,877.50	84.14	32.06	90.67	1,068.70	418.04	4,853.98	4,782.61	71.37	68.011	
13,700.00	7,870.00	7,984.19	7,877.16	85.70	32.06	90.65	1,068.70	418.03	4,949.17	4,877.85	71.32	69.396	
13,800.00	7,870.00	7,983.84	7,876.81	87.26	32.06	90.64	1,068.70	418.02	5,044.55	4,973.28	71.27	70.782	
13,900.00	7,870.00	7,983.49	7,876.45	88.83	32.06	90.63	1,068.70	418.02	5,140.10	5,068.88	71.22	72.170	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,983.13	7,876.10	90.41	32.06	90.61	1,068.70	418.01	5,235.82	5,164.64	71.18	73.559	
14,100.00	7,870.00	7,982.77	7,875.74	92.00	32.06	90.60	1,068.70	418.00	5,331.70	5,260.56	71.14	74.948	
14,200.00	7,870.00	7,982.41	7,875.38	93.59	32.06	90.59	1,068.69	418.00	5,427.72	5,356.62	71.10	76.339	
14,300.00	7,870.00	7,982.05	7,875.02	95.18	32.06	90.57	1,068.69	417.99	5,523.89	5,452.82	71.07	77.729	
14,400.00	7,870.00	7,981.68	7,874.65	96.79	32.05	90.56	1,068.69	417.98	5,620.19	5,549.16	71.03	79.121	
14,500.00	7,870.00	7,981.31	7,874.28	98.39	32.05	90.54	1,068.69	417.97	5,716.62	5,645.61	71.00	80.512	
14,600.00	7,870.00	7,980.94	7,873.91	100.00	32.05	90.53	1,068.69	417.97	5,813.16	5,742.19	70.98	81.903	
14,700.00	7,870.00	7,980.56	7,873.53	101.62	32.05	90.52	1,068.69	417.96	5,909.83	5,838.88	70.95	83.295	
14,800.00	7,870.00	7,980.18	7,873.15	103.24	32.05	90.50	1,068.69	417.95	6,006.60	5,935.67	70.93	84.686	
14,900.00	7,870.00	7,979.80	7,872.76	104.87	32.05	90.49	1,068.69	417.95	6,103.48	6,032.57	70.91	86.077	
15,000.00	7,870.00	7,979.41	7,872.38	106.50	32.05	90.47	1,068.69	417.94	6,200.45	6,129.56	70.89	87.467	
15,100.00	7,870.00	7,979.02	7,871.99	108.13	32.05	90.46	1,068.69	417.93	6,297.52	6,226.65	70.87	88.857	
15,200.00	7,870.00	7,978.62	7,871.59	109.77	32.05	90.44	1,068.68	417.92	6,394.68	6,323.82	70.86	90.246	
15,300.00	7,870.00	7,978.23	7,871.19	111.41	32.04	90.43	1,068.68	417.92	6,491.93	6,421.08	70.85	91.634	
15,400.00	7,870.00	7,977.82	7,870.79	113.05	32.04	90.41	1,068.68	417.91	6,589.26	6,518.42	70.84	93.021	
15,500.00	7,870.00	7,977.42	7,870.39	114.70	32.04	90.40	1,068.68	417.90	6,686.66	6,615.84	70.83	94.407	
15,600.00	7,870.00	7,977.01	7,869.98	116.35	32.04	90.38	1,068.68	417.90	6,784.15	6,713.32	70.82	95.792	
15,700.00	7,870.00	7,976.60	7,869.57	118.00	32.04	90.37	1,068.68	417.89	6,881.70	6,810.88	70.82	97.176	
15,800.00	7,870.00	7,976.18	7,869.15	119.66	32.04	90.35	1,068.68	417.88	6,979.33	6,908.51	70.81	98.559	
15,900.00	7,870.00	7,975.76	7,868.73	121.32	32.04	90.33	1,068.68	417.87	7,077.02	7,006.20	70.81	99.940	
16,000.00	7,870.00	7,975.34	7,868.30	122.98	32.04	90.32	1,068.68	417.86	7,174.77	7,103.96	70.81	101.320	
16,100.00	7,870.00	7,974.91	7,867.88	124.65	32.03	90.30	1,068.68	417.86	7,272.59	7,201.77	70.82	102.698	
16,200.00	7,870.00	7,974.47	7,867.44	126.32	32.03	90.28	1,068.67	417.85	7,370.46	7,299.64	70.82	104.075	
16,300.00	7,870.00	7,974.04	7,867.01	127.99	32.03	90.27	1,068.67	417.84	7,468.39	7,397.57	70.82	105.449	
16,400.00	7,870.00	7,973.60	7,866.57	129.66	32.03	90.25	1,068.67	417.83	7,566.38	7,495.54	70.83	106.823	
16,500.00	7,870.00	7,973.15	7,866.12	131.33	32.03	90.23	1,068.67	417.83	7,664.41	7,593.57	70.84	108.194	
16,600.00	7,870.00	7,972.70	7,865.67	133.01	32.03	90.22	1,068.67	417.82	7,762.50	7,691.65	70.85	109.563	
16,700.00	7,870.00	7,972.25	7,865.22	134.69	32.03	90.20	1,068.67	417.81	7,860.63	7,789.77	70.86	110.931	
16,800.00	7,870.00	7,971.79	7,864.76	136.37	32.02	90.18	1,068.67	417.80	7,958.81	7,887.94	70.87	112.296	
16,900.00	7,870.00	7,971.33	7,864.30	138.06	32.02	90.16	1,068.67	417.79	8,057.04	7,986.15	70.89	113.660	
17,000.00	7,870.00	7,970.86	7,863.83	139.74	32.02	90.15	1,068.66	417.78	8,155.31	8,084.41	70.90	115.021	
17,100.00	7,870.00	7,970.39	7,863.36	141.43	32.02	90.13	1,068.66	417.78	8,253.62	8,182.70	70.92	116.380	
17,200.00	7,870.00	7,969.91	7,862.88	143.12	32.02	90.11	1,068.66	417.77	8,351.97	8,281.03	70.94	117.737	
17,300.00	7,870.00	7,969.43	7,862.40	144.81	32.02	90.09	1,068.66	417.76	8,450.36	8,379.40	70.96	119.091	
17,400.00	7,870.00	7,968.94	7,861.91	146.50	32.02	90.07	1,068.66	417.75	8,548.79	8,477.81	70.98	120.444	
17,500.00	7,870.00	7,968.45	7,861.42	148.19	32.01	90.05	1,068.66	417.74	8,647.25	8,576.25	71.00	121.793	
17,600.00	7,870.00	7,967.95	7,860.92	149.89	32.01	90.04	1,068.66	417.73	8,745.75	8,674.73	71.02	123.141	
17,700.00	7,870.00	7,967.45	7,860.42	151.59	32.01	90.02	1,068.65	417.72	8,844.28	8,773.23	71.05	124.486	
17,800.00	7,870.00	7,966.95	7,859.92	153.29	32.01	90.00	1,068.65	417.72	8,942.84	8,871.77	71.07	125.828	
17,900.00	7,870.00	7,966.43	7,859.40	154.99	32.01	89.98	1,068.65	417.71	9,041.44	8,970.34	71.10	127.168	
18,000.00	7,870.00	7,965.92	7,858.89	156.69	32.01	89.96	1,068.65	417.70	9,140.06	9,068.94	71.13	128.505	
18,100.00	7,870.00	7,965.39	7,858.37	158.39	32.00	89.94	1,068.65	417.69	9,238.72	9,167.57	71.15	129.840	
18,200.00	7,870.00	7,964.87	7,857.84	160.09	32.00	89.92	1,068.65	417.68	9,337.40	9,266.22	71.18	131.171	
18,300.00	7,870.00	7,964.33	7,857.30	161.80	32.00	89.90	1,068.65	417.67	9,436.12	9,364.90	71.22	132.500	
18,400.00	7,870.00	7,963.79	7,856.76	163.51	32.00	89.88	1,068.64	417.66	9,534.85	9,463.61	71.25	133.827	
18,455.45	7,870.00	7,963.49	7,856.46	164.45	32.00	89.87	1,068.64	417.66	9,589.62	9,518.35	71.27	134.561	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-8.84	217.84	-33.88	220.69				
100.00	100.00	89.01	89.01	0.13	0.14	-8.84	218.04	-33.89	220.67	220.39	0.28	789.817	
200.00	200.00	188.47	188.46	0.49	0.41	-8.83	218.67	-33.96	221.30	220.40	0.90	246.399	
300.00	300.00	288.21	288.21	0.85	0.76	-8.84	219.38	-34.14	222.03	220.41	1.61	137.565	
400.00	400.00	391.38	391.38	1.21	1.12	-8.79	219.76	-33.99	222.38	220.05	2.33	95.347	
500.00	500.00	498.91	498.86	1.57	1.49	-8.40	217.63	-32.13	220.17	217.11	3.06	72.002	
600.00	600.00	605.92	605.62	1.93	1.87	-7.38	212.18	-27.49	214.52	210.74	3.79	56.632	
700.00	700.00	712.54	711.56	2.29	2.26	-5.42	203.45	-19.30	205.50	200.97	4.53	45.403	
800.00	800.00	816.92	814.61	2.64	2.68	-2.15	192.26	-7.21	193.97	188.70	5.27	36.788	
900.00	900.00	919.67	915.22	3.00	3.13	2.69	178.40	8.39	180.37	174.32	6.05	29.835	
1,000.00	1,000.00	1,017.71	1,010.59	3.36	3.60	8.92	163.64	25.69	166.91	160.06	6.85	24.357	
1,100.00	1,100.00	1,117.34	1,107.24	3.72	4.09	16.56	147.82	43.95	155.18	147.46	7.72	20.112	
1,200.00	1,200.00	1,212.44	1,199.47	4.08	4.58	24.86	132.53	61.39	146.36	137.76	8.60	17.011	
1,300.00	1,300.00	1,310.85	1,295.30	4.44	5.08	33.57	117.63	78.07	141.28	131.78	9.50	14.872	
1,400.00	1,399.98	1,408.81	1,390.87	4.79	5.58	-0.62	102.82	93.68	137.35	126.98	10.37	13.244	
1,500.00	1,499.84	1,505.77	1,485.33	5.15	6.08	8.79	87.73	109.49	133.48	122.27	11.21	11.911	
1,600.00	1,599.45	1,602.31	1,579.05	5.51	6.59	19.46	71.68	126.15	130.62	118.65	11.97	10.909	
1,674.00	1,672.94	1,673.34	1,647.98	5.78	6.97	27.85	59.88	138.61	129.90	117.43	12.47	10.415 CC	
1,700.00	1,698.70	1,698.43	1,672.35	5.87	7.11	30.85	55.82	143.00	129.99	117.36	12.63	10.289 ES	
1,800.00	1,797.47	1,795.16	1,766.43	6.24	7.62	42.56	40.59	159.55	131.88	118.69	13.20	9.995	
1,900.00	1,895.62	1,892.30	1,861.09	6.63	8.13	54.47	25.72	175.49	136.58	122.88	13.70	9.968 SF	
2,000.00	1,993.06	1,990.58	1,957.31	7.04	8.62	66.15	12.06	190.10	143.67	129.43	14.24	10.086	
2,100.00	2,089.64	2,087.87	2,052.94	7.48	9.09	77.10	0.21	203.47	153.72	138.84	14.88	10.332	
2,200.00	2,185.27	2,181.64	2,145.29	7.94	9.53	87.57	-11.56	214.74	167.79	152.17	15.62	10.741	
2,300.00	2,279.82	2,269.23	2,231.25	8.45	9.95	96.68	-24.21	225.75	189.39	172.94	16.45	11.514	
2,400.00	2,373.17	2,355.39	2,315.36	8.99	10.39	104.36	-38.41	237.92	219.06	201.69	17.36	12.615	
2,500.00	2,465.21	2,445.29	2,402.95	9.58	10.86	110.91	-53.40	251.47	254.29	235.89	18.40	13.823	
2,574.08	2,532.50	2,512.70	2,468.69	10.04	11.22	114.97	-64.05	261.99	282.76	263.57	19.19	14.734	
2,600.00	2,555.89	2,535.74	2,491.15	10.21	11.34	116.39	-67.55	265.66	293.07	273.61	19.46	15.058	
2,700.00	2,646.16	2,623.89	2,577.04	10.88	11.80	120.94	-80.84	280.38	334.17	313.68	20.49	16.312	
2,800.00	2,736.44	2,717.33	2,668.11	11.57	12.30	124.60	-94.10	296.61	376.02	354.47	21.55	17.446	
2,900.00	2,826.71	2,806.36	2,754.92	12.27	12.76	127.36	-106.14	312.24	418.25	395.70	22.55	18.544	
3,000.00	2,916.98	2,888.96	2,835.50	13.00	13.19	129.57	-117.88	326.07	461.73	438.26	23.47	19.674	
3,100.00	3,007.25	2,974.95	2,919.39	13.73	13.64	131.59	-130.90	339.73	506.57	482.16	24.41	20.755	
3,200.00	3,097.52	3,060.31	3,002.59	14.48	14.09	133.26	-144.15	353.53	552.21	526.87	25.33	21.797	
3,300.00	3,187.80	3,147.46	3,087.46	15.23	14.55	134.70	-157.97	367.70	598.48	572.20	26.28	22.776	
3,400.00	3,278.07	3,243.76	3,181.44	15.99	15.05	136.14	-172.76	382.61	644.63	617.32	27.31	23.603	
3,500.00	3,368.34	3,334.08	3,269.72	16.76	15.52	137.29	-185.52	396.79	689.89	661.61	28.27	24.400	
3,600.00	3,458.61	3,419.52	3,353.25	17.54	15.96	138.27	-197.80	409.96	735.57	706.39	29.18	25.206	
3,700.00	3,548.89	3,507.43	3,439.12	18.32	16.41	139.15	-210.70	423.58	781.69	751.58	30.11	25.957	
3,800.00	3,639.16	3,596.79	3,526.49	19.10	16.87	139.97	-223.64	437.21	827.78	796.72	31.06	26.652	
3,900.00	3,729.43	3,690.69	3,618.35	19.89	17.34	140.75	-237.02	451.37	873.83	841.78	32.05	27.269	
4,000.00	3,819.70	3,782.42	3,708.30	20.69	17.80	141.49	-249.15	464.54	919.14	886.14	33.00	27.851	
4,100.00	3,909.98	3,864.83	3,788.95	21.48	18.22	142.03	-260.50	477.20	964.91	931.04	33.87	28.488	
4,200.00	4,000.25	3,955.09	3,876.97	22.28	18.69	142.49	-273.59	492.27	1,011.22	976.39	34.83	29.030	
4,300.00	4,090.52	4,058.38	3,978.03	23.08	19.22	143.03	-286.98	508.85	1,056.26	1,020.34	35.92	29.402	
4,400.00	4,180.79	4,135.39	4,053.34	23.88	19.61	143.37	-296.94	521.52	1,101.35	1,064.60	36.75	29.969	
4,500.00	4,271.06	4,194.00	4,110.41	24.69	19.92	143.59	-305.84	531.45	1,148.34	1,110.96	37.38	30.720	
4,600.00	4,361.34	4,282.73	4,196.63	25.49	20.40	143.90	-320.71	546.21	1,196.78	1,158.44	38.34	31.216	
4,700.00	4,451.61	4,379.13	4,290.90	26.30	20.89	144.35	-335.61	559.75	1,244.53	1,205.18	39.34	31.632	
4,800.00	4,541.88	4,507.56	4,417.57	27.11	21.47	145.16	-352.13	572.92	1,290.75	1,250.16	40.59	31.802	
4,900.00	4,632.15	4,615.05	4,524.19	27.92	21.91	145.94	-362.81	581.27	1,334.96	1,293.39	41.57	32.113	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,723.29	4,631.86	28.74	22.32	146.76	-371.64	587.98	1,378.07	1,335.55	42.52	32.411	
5,100.00	4,812.70	4,835.25	4,743.47	29.55	22.72	147.64	-378.68	593.25	1,420.01	1,376.56	43.45	32.680	
5,200.00	4,902.97	4,926.12	4,834.20	30.37	23.02	148.39	-382.96	595.82	1,461.17	1,416.96	44.21	33.053	
5,300.00	4,993.24	5,006.41	4,914.38	31.18	23.27	149.06	-386.88	597.25	1,502.92	1,458.04	44.87	33.492	
5,400.00	5,083.51	5,082.06	4,989.92	32.00	23.50	149.69	-390.86	597.63	1,545.50	1,500.01	45.49	33.972	
5,500.00	5,173.79	5,210.92	5,118.58	32.82	23.90	150.71	-397.98	597.91	1,589.03	1,542.59	46.45	34.211	
5,600.00	5,264.06	5,335.44	5,243.08	33.63	24.25	151.68	-399.75	598.46	1,628.58	1,581.24	47.34	34.404	
5,700.00	5,354.33	5,433.25	5,340.90	34.45	24.50	152.44	-400.02	597.88	1,667.80	1,619.76	48.04	34.717	
5,800.00	5,444.60	5,517.50	5,425.14	35.27	24.70	153.08	-400.13	597.09	1,707.20	1,658.53	48.66	35.081	
5,900.00	5,534.88	5,609.99	5,517.63	36.09	24.93	153.76	-400.26	596.06	1,746.86	1,697.54	49.33	35.414	
6,000.00	5,625.15	5,699.89	5,607.52	36.91	25.16	154.39	-400.30	595.03	1,786.65	1,736.67	49.98	35.750	
6,100.00	5,715.42	5,792.17	5,699.79	37.74	25.39	155.00	-400.34	594.13	1,826.57	1,775.93	50.64	36.071	
6,200.00	5,805.69	5,883.85	5,791.47	38.56	25.62	155.58	-400.30	593.33	1,866.55	1,815.25	51.30	36.386	
6,300.00	5,895.96	5,977.41	5,885.02	39.38	25.86	156.16	-400.12	592.48	1,906.57	1,854.60	51.97	36.688	
6,400.00	5,986.24	6,065.07	5,972.68	40.20	26.08	156.68	-399.84	591.55	1,946.69	1,894.08	52.60	37.007	
6,500.00	6,076.51	6,157.00	6,064.60	41.03	26.32	157.21	-399.55	590.41	1,987.00	1,933.74	53.26	37.307	
6,600.00	6,166.78	6,251.62	6,159.21	41.85	26.56	157.74	-399.04	589.20	2,027.28	1,973.35	53.93	37.590	
6,700.00	6,257.05	6,344.42	6,252.01	42.67	26.80	158.23	-398.42	588.19	2,067.52	2,012.92	54.60	37.869	
6,800.00	6,347.33	6,432.74	6,340.32	43.50	27.03	158.68	-397.88	587.38	2,107.85	2,052.61	55.24	38.159	
6,900.00	6,437.60	6,520.55	6,428.13	44.32	27.27	159.11	-397.40	586.47	2,148.40	2,092.53	55.88	38.448	
7,000.00	6,527.87	6,613.96	6,521.53	45.15	27.52	159.54	-397.00	585.72	2,189.08	2,132.52	56.55	38.708	
7,100.00	6,618.14	6,703.24	6,610.81	45.98	27.76	159.93	-396.68	585.41	2,229.72	2,172.51	57.21	38.974	
7,200.00	6,708.41	6,789.43	6,697.00	46.80	28.00	160.29	-396.55	585.20	2,270.59	2,212.73	57.86	39.245	
7,300.00	6,798.69	6,873.04	6,780.61	47.63	28.25	160.62	-396.74	585.24	2,311.73	2,253.23	58.50	39.517	
7,400.00	6,888.96	6,957.63	6,865.20	48.45	28.51	160.92	-397.41	585.63	2,353.23	2,294.07	59.16	39.778	
7,500.00	6,979.23	7,045.35	6,952.91	49.28	28.78	161.22	-398.28	586.23	2,394.88	2,335.04	59.84	40.019	
7,600.00	7,069.50	7,128.22	7,035.77	50.11	29.04	161.49	-399.40	586.96	2,436.80	2,376.30	60.50	40.277	
7,692.09	7,152.63	7,203.55	7,111.08	50.87	29.28	161.73	-400.64	587.56	2,475.69	2,414.59	61.10	40.519	
7,700.00	7,159.79	7,210.82	7,118.36	50.93	29.30	160.37	-400.77	587.62	2,479.00	2,417.85	61.16	40.535	
7,750.00	7,205.70	7,257.89	7,165.42	51.32	29.45	150.56	-401.60	587.97	2,497.85	2,436.33	61.52	40.604	
7,800.00	7,252.52	7,306.00	7,213.52	51.66	29.61	138.33	-402.44	588.37	2,513.03	2,451.15	61.88	40.614	
7,850.00	7,299.89	7,354.58	7,262.08	51.96	29.76	123.83	-403.27	588.79	2,524.45	2,462.22	62.23	40.566	
7,900.00	7,347.44	7,404.43	7,311.93	52.20	29.92	108.43	-404.10	589.25	2,532.04	2,469.46	62.58	40.461	
7,950.00	7,394.83	7,456.99	7,364.48	52.39	30.09	94.28	-404.91	589.78	2,535.74	2,472.81	62.93	40.292	
8,000.00	7,441.68	7,515.56	7,423.04	52.53	30.28	82.85	-405.68	590.45	2,535.49	2,472.18	63.31	40.048	
8,050.00	7,487.65	7,579.99	7,487.46	52.62	30.49	74.40	-406.22	591.47	2,531.16	2,467.45	63.71	39.729	
8,100.00	7,532.37	7,614.11	7,521.58	52.67	30.59	68.17	-406.42	591.95	2,523.06	2,459.17	63.89	39.489	
8,150.00	7,575.52	7,647.74	7,555.21	52.67	30.70	63.86	-406.63	592.18	2,511.53	2,447.48	64.06	39.209	
8,200.00	7,616.76	7,680.46	7,587.93	52.63	30.80	61.02	-406.84	592.15	2,496.68	2,432.49	64.20	38.890	
8,250.00	7,655.77	7,713.41	7,620.87	52.55	30.90	59.36	-407.07	591.98	2,478.62	2,414.29	64.33	38.530	
8,300.00	7,692.27	7,744.22	7,651.68	52.44	30.99	58.65	-407.31	591.70	2,457.50	2,393.06	64.44	38.136	
8,350.00	7,725.97	7,775.39	7,682.85	52.29	31.08	58.81	-407.57	591.31	2,433.49	2,368.94	64.55	37.699	
8,400.00	7,756.62	7,811.72	7,719.17	52.12	31.19	59.87	-407.81	590.85	2,406.71	2,342.01	64.70	37.199	
8,450.00	7,783.98	7,844.00	7,751.45	51.92	31.28	61.66	-407.95	590.45	2,377.37	2,312.54	64.83	36.674	
8,500.00	7,807.85	7,875.62	7,783.07	51.70	31.37	64.24	-408.01	590.06	2,345.73	2,280.77	64.96	36.112	
8,550.00	7,828.05	7,905.23	7,812.68	51.45	31.46	67.62	-407.89	589.67	2,312.04	2,246.95	65.09	35.522	
8,600.00	7,844.41	7,928.46	7,835.90	51.20	31.52	71.67	-407.68	589.33	2,276.62	2,211.42	65.19	34.921	
8,650.00	7,856.82	7,945.38	7,852.82	50.93	31.57	76.34	-407.46	589.07	2,239.78	2,174.50	65.28	34.312	
8,700.00	7,865.18	7,956.11	7,863.55	50.65	31.60	81.57	-407.29	588.90	2,201.83	2,136.49	65.34	33.698	
8,750.00	7,869.43	7,960.83	7,868.26	50.36	31.61	87.25	-407.20	588.83	2,163.09	2,097.70	65.38	33.082	
8,776.25	7,870.00	7,960.97	7,868.40	50.21	31.61	90.36	-407.20	588.82	2,142.52	2,077.12	65.40	32.759	
8,800.00	7,870.00	7,960.38	7,867.82	50.08	31.61	90.34	-407.21	588.83	2,123.92	2,058.50	65.42	32.467	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,958.00	7,865.44	49.53	31.60	90.24	-407.25	588.87	2,046.74	1,981.25	65.49	31.253	
9,000.00	7,870.00	7,955.75	7,863.18	49.01	31.60	90.14	-407.29	588.91	1,971.61	1,906.02	65.59	30.061	
9,100.00	7,870.00	7,953.61	7,861.04	48.52	31.59	90.05	-407.33	588.94	1,898.77	1,833.05	65.72	28.894	
9,200.00	7,870.00	7,951.57	7,859.01	48.06	31.59	89.96	-407.36	588.98	1,828.50	1,762.62	65.88	27.756	
9,300.00	7,870.00	7,949.63	7,857.07	47.63	31.58	89.87	-407.39	589.01	1,761.11	1,695.03	66.08	26.652	
9,400.00	7,870.00	7,947.79	7,855.23	47.22	31.58	89.79	-407.42	589.04	1,696.93	1,630.61	66.32	25.586	
9,500.00	7,870.00	7,946.03	7,853.46	46.83	31.57	89.72	-407.45	589.06	1,636.35	1,569.74	66.61	24.565	
9,600.00	7,870.00	7,944.34	7,851.78	46.48	31.57	89.64	-407.47	589.09	1,579.78	1,512.83	66.95	23.595	
9,700.00	7,870.00	7,942.73	7,850.17	46.14	31.56	89.58	-407.49	589.12	1,527.67	1,460.33	67.34	22.685	
9,800.00	7,870.00	7,941.19	7,848.63	45.83	31.56	89.51	-407.52	589.14	1,480.48	1,412.70	67.78	21.842	
9,900.00	7,870.00	7,939.72	7,847.16	45.54	31.55	89.44	-407.54	589.16	1,438.71	1,370.45	68.26	21.077	
10,000.00	7,870.00	7,938.31	7,845.74	45.27	31.55	89.38	-407.56	589.18	1,402.83	1,334.05	68.77	20.398	
10,100.00	7,870.00	7,936.95	7,844.39	45.03	31.54	89.33	-407.57	589.20	1,373.31	1,304.00	69.31	19.814	
10,200.00	7,870.00	7,935.64	7,843.08	44.82	31.54	89.27	-407.59	589.22	1,350.56	1,280.71	69.85	19.336	
10,300.00	7,870.00	7,934.39	7,841.83	44.66	31.54	89.21	-407.61	589.24	1,334.93	1,264.56	70.37	18.969	
10,400.00	7,870.00	7,933.19	7,840.63	44.56	31.53	89.16	-407.62	589.26	1,326.68	1,255.81	70.87	18.721	
10,459.84	7,870.00	7,932.49	7,839.93	44.55	31.53	89.13	-407.63	589.27	1,325.33	1,254.18	71.15	18.628	
10,500.00	7,870.00	7,932.03	7,839.47	44.58	31.53	89.11	-407.64	589.28	1,325.94	1,254.63	71.31	18.593	
10,600.00	7,870.00	7,930.91	7,838.35	44.82	31.53	89.06	-407.65	589.30	1,332.72	1,261.02	71.70	18.588	
10,700.00	7,870.00	7,929.83	7,837.27	45.36	31.52	89.02	-407.66	589.31	1,346.91	1,274.90	72.02	18.703	
10,800.00	7,870.00	7,928.79	7,836.23	46.15	31.52	88.97	-407.67	589.33	1,368.28	1,296.02	72.26	18.935	
10,900.00	7,870.00	7,927.79	7,835.23	47.09	31.52	88.93	-407.69	589.34	1,396.50	1,324.06	72.44	19.279	
11,000.00	7,870.00	7,926.82	7,834.26	48.13	31.52	88.89	-407.70	589.36	1,431.17	1,358.62	72.55	19.727	
11,100.00	7,870.00	7,925.88	7,833.32	49.22	31.51	88.85	-407.71	589.37	1,471.82	1,399.22	72.60	20.272	
11,200.00	7,870.00	7,924.98	7,832.42	50.37	31.51	88.81	-407.72	589.38	1,517.98	1,445.37	72.61	20.906	
11,300.00	7,870.00	7,924.10	7,831.54	51.55	31.51	88.77	-407.73	589.40	1,569.17	1,496.59	72.58	21.620	
11,400.00	7,870.00	7,923.25	7,830.69	52.76	31.51	88.73	-407.74	589.41	1,624.90	1,552.38	72.52	22.407	
11,500.00	7,870.00	7,922.43	7,829.87	54.00	31.50	88.70	-407.74	589.42	1,684.73	1,612.29	72.43	23.260	
11,600.00	7,870.00	7,921.63	7,829.08	55.27	31.50	88.66	-407.75	589.43	1,748.23	1,675.90	72.33	24.170	
11,700.00	7,870.00	7,920.86	7,828.30	56.56	31.50	88.63	-407.76	589.44	1,815.02	1,742.81	72.22	25.133	
11,800.00	7,870.00	7,920.11	7,827.56	57.88	31.50	88.60	-407.77	589.46	1,884.76	1,812.66	72.10	26.142	
11,900.00	7,870.00	7,919.39	7,826.83	59.21	31.50	88.57	-407.77	589.47	1,957.12	1,885.15	71.98	27.192	
12,000.00	7,870.00	7,918.68	7,826.12	60.57	31.49	88.54	-407.78	589.48	2,031.83	1,959.98	71.85	28.278	
12,100.00	7,870.00	7,918.00	7,825.44	61.94	31.49	88.51	-407.79	589.49	2,108.63	2,036.90	71.73	29.397	
12,200.00	7,870.00	7,917.33	7,824.77	63.33	31.49	88.48	-407.79	589.50	2,187.31	2,115.70	71.61	30.545	
12,300.00	7,870.00	7,916.68	7,824.13	64.74	31.49	88.45	-407.80	589.51	2,267.67	2,196.18	71.49	31.719	
12,400.00	7,870.00	7,916.05	7,823.50	66.16	31.49	88.42	-407.81	589.51	2,349.54	2,278.16	71.38	32.916	
12,500.00	7,870.00	7,915.44	7,822.89	67.59	31.48	88.40	-407.81	589.52	2,432.76	2,361.49	71.27	34.133	
12,600.00	7,870.00	7,914.85	7,822.29	69.04	31.48	88.37	-407.82	589.53	2,517.20	2,446.03	71.17	35.369	
12,700.00	7,870.00	7,914.27	7,821.71	70.51	31.48	88.34	-407.82	589.54	2,602.75	2,531.68	71.07	36.621	
12,800.00	7,870.00	7,913.70	7,821.15	71.98	31.48	88.32	-407.83	589.55	2,689.29	2,618.31	70.98	37.888	
12,900.00	7,870.00	7,913.15	7,820.60	73.47	31.48	88.30	-407.83	589.56	2,776.74	2,705.85	70.89	39.167	
13,000.00	7,870.00	7,912.62	7,820.06	74.96	31.48	88.27	-407.84	589.56	2,865.01	2,794.20	70.81	40.459	
13,100.00	7,870.00	7,912.09	7,819.54	76.47	31.47	88.25	-407.84	589.57	2,954.03	2,883.29	70.74	41.761	
13,200.00	7,870.00	7,911.58	7,819.03	77.99	31.47	88.23	-407.84	589.58	3,043.72	2,973.06	70.67	43.072	
13,300.00	7,870.00	7,911.09	7,818.53	79.51	31.47	88.21	-407.85	589.59	3,134.05	3,063.45	70.60	44.392	
13,400.00	7,870.00	7,910.60	7,818.05	81.05	31.47	88.19	-407.85	589.59	3,224.94	3,154.40	70.54	45.720	
13,500.00	7,870.00	7,910.13	7,817.57	82.59	31.47	88.17	-407.86	589.60	3,316.36	3,245.88	70.48	47.054	
13,600.00	7,870.00	7,909.67	7,817.11	84.14	31.47	88.15	-407.86	589.61	3,408.26	3,337.83	70.43	48.395	
13,700.00	7,870.00	7,909.21	7,816.66	85.70	31.47	88.13	-407.86	589.61	3,500.60	3,430.22	70.38	49.741	
13,800.00	7,870.00	7,908.77	7,816.22	87.26	31.47	88.11	-407.87	589.62	3,593.35	3,523.02	70.33	51.091	
13,900.00	7,870.00	7,908.34	7,815.79	88.83	31.46	88.09	-407.87	589.62	3,686.48	3,616.19	70.29	52.447	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,907.92	7,815.37	90.41	31.46	88.07	-407.87	589.63	3,779.97	3,709.71	70.25	53.806	
14,100.00	7,870.00	7,907.51	7,814.95	92.00	31.46	88.05	-407.88	589.64	3,873.77	3,803.56	70.22	55.168	
14,200.00	7,870.00	7,907.11	7,814.55	93.59	31.46	88.04	-407.88	589.64	3,967.89	3,897.70	70.19	56.534	
14,300.00	7,870.00	7,906.71	7,814.16	95.18	31.46	88.02	-407.88	589.65	4,062.28	3,992.12	70.16	57.902	
14,400.00	7,870.00	7,906.33	7,813.77	96.79	31.46	88.00	-407.88	589.65	4,156.93	4,086.80	70.13	59.272	
14,500.00	7,870.00	7,905.95	7,813.39	98.39	31.46	87.99	-407.89	589.66	4,251.83	4,181.72	70.11	60.645	
14,600.00	7,870.00	7,905.58	7,813.02	100.00	31.46	87.97	-407.89	589.66	4,346.96	4,276.87	70.09	62.019	
14,700.00	7,870.00	7,905.22	7,812.66	101.62	31.46	87.95	-407.89	589.67	4,442.30	4,372.22	70.07	63.394	
14,800.00	7,870.00	7,904.86	7,812.31	103.24	31.45	87.94	-407.89	589.67	4,537.84	4,467.78	70.06	64.771	
14,900.00	7,870.00	7,904.52	7,811.96	104.87	31.45	87.92	-407.90	589.68	4,633.57	4,563.52	70.05	66.149	
15,000.00	7,870.00	7,904.18	7,811.62	106.50	31.45	87.91	-407.90	589.68	4,729.48	4,659.44	70.04	67.527	
15,100.00	7,870.00	7,903.85	7,811.29	108.13	31.45	87.89	-407.90	589.69	4,825.55	4,755.52	70.03	68.906	
15,200.00	7,870.00	7,903.52	7,810.96	109.77	31.45	87.88	-407.90	589.69	4,921.78	4,851.75	70.03	70.286	
15,300.00	7,870.00	7,903.20	7,810.64	111.41	31.45	87.87	-407.90	589.70	5,018.16	4,948.13	70.02	71.665	
15,400.00	7,870.00	7,902.89	7,810.33	113.05	31.45	87.85	-407.91	589.70	5,114.67	5,044.65	70.02	73.044	
15,500.00	7,870.00	7,902.58	7,810.02	114.70	31.45	87.84	-407.91	589.70	5,211.32	5,141.30	70.02	74.424	
15,600.00	7,870.00	7,902.28	7,809.72	116.35	31.45	87.83	-407.91	589.71	5,308.09	5,238.06	70.03	75.803	
15,700.00	7,870.00	7,901.98	7,809.43	118.00	31.45	87.81	-407.91	589.71	5,404.98	5,334.95	70.03	77.181	
15,800.00	7,870.00	7,901.69	7,809.13	119.66	31.45	87.80	-407.91	589.72	5,501.98	5,431.94	70.04	78.559	
15,900.00	7,870.00	7,901.40	7,808.85	121.32	31.44	87.79	-407.92	589.72	5,599.08	5,529.04	70.04	79.936	
16,000.00	7,870.00	7,901.13	7,808.57	122.98	31.44	87.78	-407.92	589.72	5,696.29	5,626.24	70.05	81.313	
16,100.00	7,870.00	7,900.85	7,808.30	124.65	31.44	87.76	-407.92	589.73	5,793.59	5,723.52	70.07	82.688	
16,200.00	7,870.00	7,900.58	7,808.03	126.32	31.44	87.75	-407.92	589.73	5,890.98	5,820.90	70.08	84.062	
16,300.00	7,870.00	7,900.32	7,807.76	127.99	31.44	87.74	-407.92	589.74	5,988.46	5,918.37	70.09	85.435	
16,400.00	7,870.00	7,900.06	7,807.50	129.66	31.44	87.73	-407.92	589.74	6,086.02	6,015.91	70.11	86.807	
16,500.00	7,870.00	7,899.80	7,807.25	131.33	31.44	87.72	-407.93	589.74	6,183.65	6,113.53	70.13	88.178	
16,600.00	7,870.00	7,899.55	7,806.99	133.01	31.44	87.71	-407.93	589.75	6,281.37	6,211.22	70.15	89.547	
16,700.00	7,870.00	7,899.30	7,806.75	134.69	31.44	87.70	-407.93	589.75	6,379.15	6,308.98	70.17	90.915	
16,800.00	7,870.00	7,899.06	7,806.50	136.37	31.44	87.69	-407.93	589.75	6,477.00	6,406.81	70.19	92.281	
16,900.00	7,870.00	7,898.82	7,806.27	138.06	31.44	87.68	-407.93	589.76	6,574.91	6,504.70	70.21	93.645	
17,000.00	7,870.00	7,898.59	7,806.03	139.74	31.44	87.67	-407.93	589.76	6,672.89	6,602.65	70.24	95.008	
17,100.00	7,870.00	7,898.36	7,805.80	141.43	31.44	87.66	-407.93	589.76	6,770.92	6,700.66	70.26	96.369	
17,200.00	7,870.00	7,898.13	7,805.58	143.12	31.44	87.65	-407.94	589.77	6,869.02	6,798.73	70.29	97.728	
17,300.00	7,870.00	7,897.91	7,805.35	144.81	31.43	87.64	-407.94	589.77	6,967.16	6,896.85	70.32	99.085	
17,400.00	7,870.00	7,897.69	7,805.13	146.50	31.43	87.63	-407.94	589.77	7,065.36	6,995.02	70.34	100.440	
17,500.00	7,870.00	7,897.47	7,804.92	148.19	31.43	87.62	-407.94	589.77	7,163.61	7,093.23	70.37	101.792	
17,600.00	7,870.00	7,897.26	7,804.71	149.89	31.43	87.61	-407.94	589.78	7,261.91	7,191.50	70.41	103.143	
17,700.00	7,870.00	7,897.05	7,804.50	151.59	31.43	87.60	-407.94	589.78	7,360.25	7,289.81	70.44	104.492	
17,800.00	7,870.00	7,896.85	7,804.29	153.29	31.43	87.59	-407.94	589.78	7,458.63	7,388.16	70.47	105.838	
17,900.00	7,870.00	7,896.64	7,804.09	154.99	31.43	87.58	-407.94	589.79	7,557.06	7,486.55	70.51	107.182	
18,000.00	7,870.00	7,896.44	7,803.89	156.69	31.43	87.57	-407.94	589.79	7,655.53	7,584.99	70.54	108.524	
18,100.00	7,870.00	7,896.25	7,803.69	158.39	31.43	87.57	-407.94	589.79	7,754.04	7,683.46	70.58	109.863	
18,200.00	7,870.00	7,896.05	7,803.50	160.09	31.43	87.56	-407.95	589.79	7,852.58	7,781.97	70.62	111.200	
18,300.00	7,870.00	7,895.86	7,803.31	161.80	31.43	87.55	-407.95	589.80	7,951.17	7,880.51	70.66	112.534	
18,400.00	7,870.00	7,895.68	7,803.12	163.51	31.43	87.54	-407.95	589.80	8,049.78	7,979.09	70.70	113.865	
18,455.45	7,870.00	7,895.57	7,803.02	164.45	31.43	87.54	-407.95	589.80	8,104.48	8,033.76	70.72	114.603	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-19.20	217.84	-75.88	230.90				
100.00	100.00	91.15	91.15	0.13	0.15	-19.32	217.47	-76.25	230.46	230.17	0.28	812.793	
172.59	172.59	162.60	162.59	0.39	0.31	-19.55	216.80	-77.00	230.07	229.36	0.71	325.767	CC
200.00	200.00	188.22	188.21	0.49	0.40	-19.60	216.84	-77.20	230.18	229.28	0.89	257.476	ES
300.00	300.00	279.55	279.50	0.85	0.72	-19.47	219.10	-77.45	232.63	231.05	1.58	147.192	
400.00	400.00	370.42	370.15	1.21	1.06	-19.00	225.36	-77.60	239.18	236.91	2.27	105.591	
500.00	500.00	462.14	461.35	1.57	1.39	-18.22	235.03	-77.37	249.09	246.14	2.95	84.334	
600.00	600.00	552.31	550.68	1.93	1.75	-17.44	247.37	-77.72	262.26	258.62	3.64	72.098	
700.00	700.00	640.67	637.67	2.29	2.13	-16.59	262.78	-78.27	279.13	274.82	4.31	64.723	
800.00	800.00	727.90	722.93	2.64	2.53	-15.75	281.15	-79.27	299.71	294.73	4.98	60.181	
900.00	900.00	813.17	805.57	3.00	2.96	-14.93	302.14	-80.56	323.89	318.25	5.64	57.478	
1,000.00	1,000.00	899.31	888.16	3.36	3.42	-14.10	326.52	-82.05	351.74	345.44	6.29	55.884	
1,100.00	1,100.00	994.34	978.94	3.72	3.95	-13.33	354.57	-84.04	380.94	373.94	7.00	54.440	
1,200.00	1,200.00	1,088.71	1,069.15	4.08	4.49	-12.67	382.19	-85.93	409.94	402.22	7.72	53.105	
1,300.00	1,300.00	1,178.20	1,154.32	4.44	5.02	-12.10	409.61	-87.81	440.34	431.93	8.41	52.389	
1,400.00	1,399.98	1,275.23	1,246.62	4.79	5.60	-54.20	439.46	-90.07	469.98	460.84	9.14	51.411	
1,500.00	1,499.84	1,369.46	1,336.26	5.15	6.17	-53.78	468.41	-92.17	497.62	487.76	9.86	50.471	
1,600.00	1,599.45	1,460.08	1,422.21	5.51	6.72	-53.63	497.07	-94.01	524.14	513.58	10.56	49.633	
1,700.00	1,698.70	1,551.27	1,508.36	5.87	7.30	-53.71	526.93	-95.55	549.74	538.46	11.28	48.746	
1,800.00	1,797.47	1,644.97	1,596.63	6.24	7.90	-54.06	558.30	-97.42	574.20	562.17	12.03	47.729	
1,900.00	1,895.62	1,743.24	1,689.21	6.63	8.53	-54.75	591.17	-99.96	596.92	584.08	12.84	46.488	
2,000.00	1,993.06	1,843.88	1,784.23	7.04	9.17	-55.78	624.18	-103.27	617.46	603.76	13.69	45.087	
2,100.00	2,089.64	1,948.21	1,883.03	7.48	9.83	-57.16	657.44	-107.38	635.73	621.12	14.61	43.515	
2,200.00	2,185.27	2,051.87	1,981.71	7.94	10.47	-58.84	688.82	-112.07	651.28	635.73	15.56	41.861	
2,300.00	2,279.82	2,154.41	2,079.60	8.45	11.08	-60.75	718.90	-117.10	665.04	648.49	16.55	40.186	
2,400.00	2,373.17	2,258.64	2,179.41	8.99	11.70	-62.84	748.69	-121.00	676.90	659.29	17.61	38.432	
2,500.00	2,465.21	2,361.40	2,278.09	9.58	12.30	-65.06	777.22	-123.87	687.10	668.36	18.74	36.671	
2,574.08	2,532.50	2,439.22	2,353.01	10.04	12.74	-66.87	798.19	-125.56	693.74	674.11	19.63	35.337	
2,600.00	2,555.89	2,466.48	2,379.30	10.21	12.89	-67.56	805.39	-126.01	695.91	675.96	19.95	34.874	
2,700.00	2,646.16	2,559.76	2,469.25	10.88	13.42	-69.87	830.05	-127.48	705.13	683.98	21.15	33.339	
2,800.00	2,736.44	2,656.33	2,562.38	11.57	13.96	-72.21	855.55	-128.94	715.56	693.15	22.41	31.932	
2,900.00	2,826.71	2,755.46	2,658.11	12.27	14.51	-74.56	881.25	-130.51	726.84	703.12	23.72	30.642	
3,000.00	2,916.98	2,856.99	2,756.16	13.00	15.07	-76.81	907.57	-130.61	738.44	713.36	25.08	29.449	
3,100.00	3,007.25	2,950.90	2,846.84	13.73	15.59	-78.79	932.01	-130.22	750.86	724.46	26.40	28.444	
3,200.00	3,097.52	3,042.96	2,935.79	14.48	16.10	-80.73	955.71	-130.54	764.49	736.77	27.72	27.575	
3,300.00	3,187.80	3,130.12	3,019.72	15.23	16.60	-82.43	979.21	-130.56	779.76	750.74	29.02	26.868	
3,400.00	3,278.07	3,212.45	3,098.52	15.99	17.08	-83.91	1,003.08	-130.57	797.27	766.98	30.29	26.324	
3,500.00	3,368.34	3,318.78	3,200.08	16.76	17.72	-85.66	1,034.54	-129.82	815.39	783.62	31.77	25.668	
3,600.00	3,458.61	3,411.27	3,288.45	17.54	18.27	-87.11	1,061.84	-128.97	833.90	800.77	33.13	25.169	
3,700.00	3,548.89	3,514.49	3,386.84	18.32	18.89	-88.58	1,092.94	-126.99	852.68	818.09	34.59	24.648	
3,800.00	3,639.16	3,607.88	3,476.05	19.10	19.45	-89.87	1,120.52	-124.85	871.27	835.30	35.97	24.221	
3,900.00	3,729.43	3,680.26	3,545.18	19.89	19.89	-90.91	1,141.95	-124.99	892.20	855.06	37.14	24.021	
4,000.00	3,819.70	3,788.90	3,649.37	20.69	20.52	-92.54	1,172.63	-126.90	914.01	875.37	38.65	23.651	
4,100.00	3,909.98	3,886.35	3,743.23	21.48	21.08	-94.00	1,198.79	-128.72	935.67	895.64	40.03	23.375	
4,200.00	4,000.25	3,984.02	3,837.15	22.28	21.64	-95.35	1,225.56	-129.79	957.58	916.17	41.41	23.125	
4,300.00	4,090.52	4,085.55	3,934.79	23.08	22.22	-96.68	1,253.38	-130.58	979.73	936.91	42.82	22.880	
4,400.00	4,180.79	4,188.60	4,034.16	23.88	22.80	-97.99	1,280.69	-130.53	1,001.15	956.91	44.24	22.631	
4,500.00	4,271.06	4,281.42	4,123.30	24.69	23.33	-99.04	1,306.54	-129.90	1,023.17	977.61	45.56	22.458	
4,600.00	4,361.34	4,373.88	4,212.04	25.49	23.87	-100.03	1,332.49	-129.15	1,045.54	998.67	46.87	22.305	
4,700.00	4,451.61	4,457.61	4,292.45	26.30	24.35	-100.93	1,355.83	-129.39	1,069.06	1,020.97	48.09	22.230	
4,800.00	4,541.88	4,546.49	4,377.96	27.11	24.87	-101.91	1,380.03	-131.08	1,093.96	1,044.61	49.34	22.170	
4,900.00	4,632.15	4,657.29	4,484.34	27.92	25.51	-103.00	1,410.97	-131.82	1,118.44	1,067.62	50.82	22.009	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,755.21	4,577.98	28.74	26.09	-103.83	1,439.58	-130.87	1,142.36	1,090.19	52.17	21.896	
5,100.00	4,812.70	4,854.40	4,672.81	29.55	26.68	-104.63	1,468.66	-129.98	1,166.61	1,113.07	53.53	21.793	
5,200.00	4,902.97	4,953.60	4,768.26	30.37	27.25	-105.51	1,495.66	-129.40	1,190.46	1,135.59	54.87	21.697	
5,300.00	4,993.24	5,044.53	4,856.12	31.18	27.75	-106.35	1,519.05	-129.62	1,214.71	1,158.61	56.10	21.654	
5,400.00	5,083.51	5,133.79	4,942.65	32.00	28.23	-107.21	1,540.98	-130.73	1,239.68	1,182.39	57.29	21.640	
5,500.00	5,173.79	5,233.03	5,039.07	32.82	28.75	-108.19	1,564.37	-132.60	1,265.18	1,206.64	58.54	21.610	
5,600.00	5,264.06	5,346.92	5,150.63	33.63	29.29	-109.44	1,587.08	-135.07	1,290.03	1,230.16	59.88	21.544	
5,700.00	5,354.33	5,459.79	5,262.06	34.45	29.78	-110.82	1,604.96	-137.30	1,313.84	1,252.72	61.12	21.497	
5,800.00	5,444.60	5,565.33	5,366.81	35.27	30.18	-112.23	1,617.59	-139.44	1,337.11	1,274.89	62.22	21.490	SF
5,900.00	5,534.88	5,662.63	5,463.65	36.09	30.50	-113.58	1,626.70	-141.57	1,360.46	1,297.26	63.20	21.527	
6,000.00	5,625.15	5,762.72	5,563.50	36.91	30.81	-115.05	1,633.05	-144.21	1,384.20	1,320.07	64.13	21.584	
6,100.00	5,715.42	5,885.00	5,685.68	37.74	31.14	-116.91	1,637.27	-146.47	1,407.44	1,342.34	65.09	21.622	
6,200.00	5,805.69	5,985.82	5,786.48	38.56	31.39	-118.43	1,639.31	-146.78	1,429.84	1,363.93	65.91	21.694	
6,300.00	5,895.96	6,071.63	5,872.28	39.38	31.60	-119.70	1,640.61	-147.19	1,453.21	1,386.57	66.63	21.810	
6,400.00	5,986.24	6,156.97	5,957.61	40.20	31.80	-120.99	1,640.69	-148.15	1,477.79	1,410.49	67.30	21.957	
6,500.00	6,076.51	6,248.32	6,048.95	41.03	32.01	-122.31	1,641.06	-149.29	1,503.39	1,435.41	67.98	22.116	
6,600.00	6,166.78	6,338.68	6,139.31	41.85	32.22	-123.57	1,641.59	-150.18	1,529.57	1,460.94	68.63	22.286	
6,700.00	6,257.05	6,427.17	6,227.79	42.67	32.44	-124.76	1,642.28	-151.27	1,556.76	1,487.49	69.26	22.475	
6,800.00	6,347.33	6,522.65	6,323.26	43.50	32.67	-126.01	1,643.21	-152.16	1,584.40	1,514.48	69.92	22.661	
6,900.00	6,437.60	6,619.10	6,419.71	44.32	32.91	-127.24	1,643.45	-152.91	1,612.56	1,542.01	70.55	22.857	
7,000.00	6,527.87	6,719.16	6,519.76	45.15	33.15	-128.48	1,643.84	-152.98	1,640.72	1,569.53	71.19	23.047	
7,100.00	6,618.14	6,805.73	6,606.33	45.98	33.37	-129.49	1,644.82	-152.88	1,669.35	1,597.58	71.77	23.260	
7,200.00	6,708.41	6,887.29	6,687.87	46.80	33.59	-130.40	1,646.22	-153.21	1,699.01	1,626.69	72.32	23.492	
7,300.00	6,798.69	6,976.14	6,776.71	47.63	33.83	-131.35	1,648.03	-153.89	1,729.52	1,656.60	72.91	23.720	
7,400.00	6,888.96	7,073.63	6,874.17	48.45	34.10	-132.36	1,650.28	-154.38	1,760.25	1,686.70	73.55	23.933	
7,500.00	6,979.23	7,162.84	6,963.36	49.28	34.34	-133.26	1,652.09	-154.73	1,791.36	1,717.22	74.13	24.165	
7,600.00	7,069.50	7,252.95	7,053.45	50.11	34.59	-134.14	1,653.78	-155.17	1,822.99	1,748.29	74.71	24.401	
7,692.09	7,152.63	7,348.57	7,149.04	50.87	34.86	-135.02	1,656.41	-155.47	1,852.30	1,776.97	75.33	24.589	
7,700.00	7,159.79	7,358.99	7,159.45	50.93	34.90	-136.59	1,656.77	-155.46	1,854.79	1,779.39	75.40	24.600	
7,750.00	7,205.70	7,426.11	7,226.51	51.32	35.10	-147.72	1,659.53	-154.98	1,870.29	1,794.46	75.83	24.664	
7,800.00	7,252.52	7,470.19	7,270.57	51.66	35.21	-161.23	1,660.86	-154.42	1,885.50	1,809.39	76.11	24.775	
7,850.00	7,299.89	7,515.85	7,316.22	51.96	35.34	-177.13	1,661.03	-153.78	1,900.51	1,824.14	76.37	24.886	
7,900.00	7,347.44	7,554.07	7,354.43	52.20	35.42	165.99	1,660.47	-153.29	1,915.29	1,838.73	76.56	25.017	
7,950.00	7,394.83	7,592.28	7,392.63	52.39	35.51	150.25	1,659.52	-152.95	1,929.82	1,853.08	76.74	25.147	
8,000.00	7,441.68	7,649.40	7,449.72	52.53	35.64	137.24	1,657.63	-152.50	1,943.88	1,866.88	77.00	25.245	
8,050.00	7,487.65	7,720.93	7,521.20	52.62	35.79	127.30	1,655.45	-151.18	1,956.81	1,879.49	77.32	25.308	
8,100.00	7,532.37	7,754.03	7,554.28	52.67	35.87	119.49	1,654.52	-150.58	1,969.08	1,891.59	77.49	25.412	
8,150.00	7,575.52	7,793.19	7,593.42	52.67	35.96	113.57	1,653.49	-149.91	1,980.81	1,903.14	77.68	25.501	
8,200.00	7,616.76	7,839.01	7,639.22	52.63	36.06	109.14	1,652.30	-149.16	1,991.98	1,914.08	77.90	25.572	
8,250.00	7,655.77	7,883.54	7,683.73	52.55	36.16	105.75	1,651.08	-148.32	2,002.52	1,924.40	78.11	25.636	
8,300.00	7,692.27	7,935.56	7,735.71	52.44	36.28	103.32	1,649.48	-147.10	2,012.42	1,934.07	78.36	25.683	
8,350.00	7,725.97	7,988.81	7,788.89	52.29	36.40	101.56	1,647.53	-145.43	2,021.66	1,943.07	78.59	25.724	
8,400.00	7,756.62	8,090.67	7,890.49	52.12	36.62	101.40	1,642.59	-140.01	2,029.89	1,950.96	78.93	25.719	
8,450.00	7,783.98	8,118.48	7,918.19	51.92	36.68	100.07	1,641.02	-138.14	2,037.54	1,958.48	79.06	25.773	
8,500.00	7,807.85	8,150.91	7,950.48	51.70	36.74	99.14	1,639.11	-135.86	2,045.07	1,965.89	79.19	25.826	
8,550.00	7,828.05	8,179.23	7,978.67	51.45	36.80	98.36	1,637.37	-133.80	2,052.61	1,973.31	79.30	25.884	
8,600.00	7,844.41	8,171.00	7,970.48	51.20	36.78	96.81	1,637.88	-134.41	2,060.45	1,981.11	79.33	25.972	
8,650.00	7,856.82	8,191.09	7,990.49	50.93	36.83	96.14	1,636.74	-133.03	2,068.36	1,988.94	79.41	26.045	
8,700.00	7,865.18	8,196.31	7,995.70	50.65	36.84	95.20	1,636.47	-132.71	2,076.58	1,997.13	79.45	26.137	
8,750.00	7,869.43	8,199.47	7,998.84	50.36	36.85	94.33	1,636.32	-132.51	2,084.99	2,005.52	79.47	26.238	
8,776.25	7,870.00	8,200.32	7,999.69	50.21	36.85	93.89	1,636.28	-132.46	2,089.47	2,010.00	79.46	26.294	
8,800.00	7,870.00	8,200.83	8,000.20	50.08	36.85	93.91	1,636.26	-132.43	2,093.67	2,014.20	79.46	26.348	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,202.94	8,002.30	49.53	36.86	93.96	1,636.16	-132.31	2,114.18	2,034.76	79.42	26.620	
9,000.00	7,870.00	8,204.95	8,004.31	49.01	36.86	94.02	1,636.07	-132.19	2,139.17	2,059.83	79.33	26.964	
9,100.00	7,870.00	8,206.87	8,006.22	48.52	36.86	94.07	1,635.98	-132.08	2,168.48	2,089.27	79.21	27.376	
9,200.00	7,870.00	8,208.71	8,008.06	48.06	36.87	94.12	1,635.90	-131.98	2,201.94	2,122.89	79.05	27.855	
9,300.00	7,870.00	8,210.48	8,009.82	47.63	36.87	94.17	1,635.83	-131.88	2,239.37	2,160.51	78.86	28.397	
9,400.00	7,870.00	8,212.17	8,011.51	47.22	36.88	94.22	1,635.76	-131.79	2,280.57	2,201.93	78.64	28.998	
9,500.00	7,870.00	8,213.80	8,013.13	46.83	36.88	94.27	1,635.69	-131.70	2,325.34	2,246.94	78.41	29.657	
9,600.00	7,870.00	8,215.36	8,014.69	46.48	36.88	94.31	1,635.63	-131.62	2,373.48	2,295.33	78.16	30.368	
9,700.00	7,870.00	8,216.86	8,016.19	46.14	36.89	94.35	1,635.57	-131.54	2,424.79	2,346.90	77.89	31.130	
9,800.00	7,870.00	8,218.31	8,017.63	45.83	36.89	94.39	1,635.52	-131.47	2,479.07	2,401.45	77.62	31.939	
9,900.00	7,870.00	8,219.70	8,019.02	45.54	36.89	94.43	1,635.46	-131.40	2,536.13	2,458.79	77.34	32.790	
10,000.00	7,870.00	8,221.04	8,020.36	45.27	36.90	94.47	1,635.41	-131.33	2,595.79	2,518.72	77.07	33.683	
10,100.00	7,870.00	8,222.33	8,021.65	45.03	36.90	94.50	1,635.37	-131.27	2,657.86	2,581.08	76.79	34.613	
10,200.00	7,870.00	8,223.58	8,022.89	44.82	36.90	94.54	1,635.32	-131.21	2,722.20	2,645.69	76.51	35.578	
10,300.00	7,870.00	8,224.78	8,024.10	44.66	36.90	94.57	1,635.28	-131.15	2,788.64	2,712.39	76.25	36.574	
10,400.00	7,870.00	8,225.95	8,025.26	44.56	36.91	94.60	1,635.24	-131.09	2,857.03	2,781.05	75.98	37.601	
10,500.00	7,870.00	8,227.07	8,026.38	44.58	36.91	94.63	1,635.20	-131.04	2,927.24	2,851.51	75.73	38.655	
10,600.00	7,870.00	8,228.16	8,027.47	44.82	36.91	94.66	1,635.17	-130.99	2,999.14	2,923.66	75.48	39.734	
10,700.00	7,870.00	8,229.21	8,028.52	45.36	36.91	94.69	1,635.13	-130.94	3,072.61	2,997.37	75.24	40.836	
10,800.00	7,870.00	8,230.23	8,029.54	46.15	36.92	94.72	1,635.10	-130.89	3,147.54	3,072.53	75.01	41.960	
10,900.00	7,870.00	8,231.22	8,030.52	47.09	36.92	94.75	1,635.07	-130.85	3,223.83	3,149.04	74.79	43.104	
11,000.00	7,870.00	8,232.17	8,031.48	48.13	36.92	94.78	1,635.04	-130.81	3,301.39	3,226.81	74.58	44.266	
11,100.00	7,870.00	8,233.10	8,032.40	49.22	36.92	94.80	1,635.01	-130.76	3,380.13	3,305.75	74.38	45.444	
11,200.00	7,870.00	8,234.00	8,033.30	50.37	36.93	94.83	1,634.98	-130.73	3,459.96	3,385.77	74.19	46.638	
11,300.00	7,870.00	8,264.00	8,063.27	51.55	36.99	95.66	1,634.31	-129.63	3,541.23	3,467.21	74.02	47.843	
11,400.00	7,870.00	8,264.00	8,063.27	52.76	36.99	95.66	1,634.31	-129.63	3,623.01	3,549.17	73.84	49.064	
11,500.00	7,870.00	8,264.00	8,063.27	54.00	36.99	95.66	1,634.31	-129.63	3,705.69	3,632.01	73.68	50.297	
11,600.00	7,870.00	8,264.00	8,063.27	55.27	36.99	95.66	1,634.31	-129.63	3,789.20	3,715.69	73.52	51.541	
11,700.00	7,870.00	8,264.00	8,063.27	56.56	36.99	95.66	1,634.31	-129.63	3,873.50	3,800.13	73.37	52.795	
11,800.00	7,870.00	8,264.00	8,063.27	57.88	36.99	95.66	1,634.31	-129.63	3,958.53	3,885.30	73.23	54.058	
11,900.00	7,870.00	8,264.00	8,063.27	59.21	36.99	95.66	1,634.31	-129.63	4,044.24	3,971.14	73.09	55.330	
12,000.00	7,870.00	8,264.00	8,063.27	60.57	36.99	95.66	1,634.31	-129.63	4,130.59	4,057.63	72.97	56.610	
12,100.00	7,870.00	8,264.00	8,063.27	61.94	36.99	95.66	1,634.31	-129.63	4,217.55	4,144.70	72.85	57.897	
12,200.00	7,870.00	8,264.00	8,063.27	63.33	36.99	95.66	1,634.31	-129.63	4,305.07	4,232.34	72.73	59.191	
12,300.00	7,870.00	8,264.00	8,063.27	64.74	36.99	95.66	1,634.31	-129.63	4,393.13	4,320.50	72.62	60.491	
12,400.00	7,870.00	8,264.00	8,063.27	66.16	36.99	95.66	1,634.31	-129.63	4,481.68	4,409.16	72.52	61.797	
12,500.00	7,870.00	8,264.00	8,063.27	67.59	36.99	95.66	1,634.31	-129.63	4,570.71	4,498.29	72.43	63.107	
12,600.00	7,870.00	8,264.00	8,063.27	69.04	36.99	95.66	1,634.31	-129.63	4,660.19	4,587.85	72.34	64.422	
12,700.00	7,870.00	8,264.00	8,063.27	70.51	36.99	95.66	1,634.31	-129.63	4,750.08	4,677.83	72.25	65.742	
12,800.00	7,870.00	8,264.00	8,063.27	71.98	36.99	95.66	1,634.31	-129.63	4,840.37	4,768.20	72.17	67.065	
12,900.00	7,870.00	8,264.00	8,063.27	73.47	36.99	95.66	1,634.31	-129.63	4,931.04	4,858.94	72.10	68.392	
13,000.00	7,870.00	8,264.00	8,063.27	74.96	36.99	95.66	1,634.31	-129.63	5,022.06	4,950.03	72.03	69.722	
13,100.00	7,870.00	8,264.00	8,063.27	76.47	36.99	95.66	1,634.31	-129.63	5,113.41	5,041.45	71.96	71.056	
13,200.00	7,870.00	8,264.00	8,063.27	77.99	36.99	95.66	1,634.31	-129.63	5,205.09	5,133.18	71.90	72.391	
13,300.00	7,870.00	8,264.00	8,063.27	79.51	36.99	95.66	1,634.31	-129.63	5,297.06	5,225.22	71.84	73.729	
13,400.00	7,870.00	8,264.00	8,063.27	81.05	36.99	95.66	1,634.31	-129.63	5,389.32	5,317.53	71.79	75.069	
13,500.00	7,870.00	8,264.00	8,063.27	82.59	36.99	95.66	1,634.31	-129.63	5,481.85	5,410.11	71.74	76.411	
13,600.00	7,870.00	8,264.00	8,063.27	84.14	36.99	95.66	1,634.31	-129.63	5,574.64	5,502.95	71.70	77.755	
13,700.00	7,870.00	8,264.00	8,063.27	85.70	36.99	95.66	1,634.31	-129.63	5,667.68	5,596.03	71.65	79.100	
13,800.00	7,870.00	8,264.00	8,063.27	87.26	36.99	95.66	1,634.31	-129.63	5,760.95	5,689.33	71.61	80.446	
13,900.00	7,870.00	8,264.00	8,063.27	88.83	36.99	95.66	1,634.31	-129.63	5,854.44	5,782.86	71.58	81.793	
14,000.00	7,870.00	8,264.00	8,063.27	90.41	36.99	95.66	1,634.31	-129.63	5,948.14	5,876.60	71.54	83.141	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	8,264.00	8,063.27	92.00	36.99	95.66	1,634.31	-129.63	6,042.04	5,970.53	71.51	84.490	
14,200.00	7,870.00	8,264.00	8,063.27	93.59	36.99	95.66	1,634.31	-129.63	6,136.14	6,064.66	71.48	85.839	
14,300.00	7,870.00	8,264.00	8,063.27	95.18	36.99	95.66	1,634.31	-129.63	6,230.42	6,158.96	71.46	87.189	
14,400.00	7,870.00	8,264.00	8,063.27	96.79	36.99	95.66	1,634.31	-129.63	6,324.88	6,253.44	71.44	88.538	
14,500.00	7,870.00	8,264.00	8,063.27	98.39	36.99	95.66	1,634.31	-129.63	6,419.50	6,348.08	71.42	89.888	
14,600.00	7,870.00	8,264.00	8,063.27	100.00	36.99	95.66	1,634.31	-129.63	6,514.29	6,442.89	71.40	91.238	
14,700.00	7,870.00	8,264.00	8,063.27	101.62	36.99	95.66	1,634.31	-129.63	6,609.22	6,537.84	71.38	92.587	
14,800.00	7,870.00	8,264.00	8,063.27	103.24	36.99	95.66	1,634.31	-129.63	6,704.31	6,632.94	71.37	93.936	
14,900.00	7,870.00	8,264.00	8,063.27	104.87	36.99	95.66	1,634.31	-129.63	6,799.54	6,728.18	71.36	95.285	
15,000.00	7,870.00	8,264.00	8,063.27	106.50	36.99	95.66	1,634.31	-129.63	6,894.90	6,823.55	71.35	96.633	
15,100.00	7,870.00	8,264.00	8,063.27	108.13	36.99	95.66	1,634.31	-129.63	6,990.39	6,919.05	71.34	97.981	
15,200.00	7,870.00	8,264.00	8,063.27	109.77	36.99	95.66	1,634.31	-129.63	7,086.01	7,014.67	71.34	99.328	
15,300.00	7,870.00	8,264.00	8,063.27	111.41	36.99	95.66	1,634.31	-129.63	7,181.74	7,110.41	71.34	100.674	
15,400.00	7,870.00	8,264.00	8,063.27	113.05	36.99	95.66	1,634.31	-129.63	7,277.59	7,206.26	71.34	102.019	
15,500.00	7,870.00	8,264.00	8,063.27	114.70	36.99	95.66	1,634.31	-129.63	7,373.55	7,302.22	71.34	103.363	
15,600.00	7,870.00	8,264.00	8,063.27	116.35	36.99	95.66	1,634.31	-129.63	7,469.62	7,398.28	71.34	104.706	
15,700.00	7,870.00	8,264.00	8,063.27	118.00	36.99	95.66	1,634.31	-129.63	7,565.79	7,494.44	71.34	106.047	
15,800.00	7,870.00	8,264.00	8,063.27	119.66	36.99	95.66	1,634.31	-129.63	7,662.05	7,590.70	71.35	107.388	
15,900.00	7,870.00	8,264.00	8,063.27	121.32	36.99	95.66	1,634.31	-129.63	7,758.41	7,687.06	71.36	108.727	
16,000.00	7,870.00	8,264.00	8,063.27	122.98	36.99	95.66	1,634.31	-129.63	7,854.87	7,783.50	71.37	110.065	
16,100.00	7,870.00	8,264.00	8,063.27	124.65	36.99	95.66	1,634.31	-129.63	7,951.41	7,880.03	71.38	111.401	
16,200.00	7,870.00	8,264.00	8,063.27	126.32	36.99	95.66	1,634.31	-129.63	8,048.03	7,976.64	71.39	112.735	
16,300.00	7,870.00	8,264.00	8,063.27	127.99	36.99	95.66	1,634.31	-129.63	8,144.73	8,073.33	71.40	114.068	
16,400.00	7,870.00	8,264.00	8,063.27	129.66	36.99	95.66	1,634.31	-129.63	8,241.52	8,170.10	71.42	115.399	
16,500.00	7,870.00	8,264.00	8,063.27	131.33	36.99	95.66	1,634.31	-129.63	8,338.38	8,266.95	71.43	116.729	
16,600.00	7,870.00	8,264.00	8,063.27	133.01	36.99	95.66	1,634.31	-129.63	8,435.31	8,363.86	71.45	118.056	
16,700.00	7,870.00	8,264.00	8,063.27	134.69	36.99	95.66	1,634.31	-129.63	8,532.32	8,460.85	71.47	119.382	
16,800.00	7,870.00	8,264.00	8,063.27	136.37	36.99	95.66	1,634.31	-129.63	8,629.39	8,557.90	71.49	120.706	
16,900.00	7,870.00	8,264.00	8,063.27	138.06	36.99	95.66	1,634.31	-129.63	8,726.53	8,655.01	71.51	122.028	
17,000.00	7,870.00	8,264.00	8,063.27	139.74	36.99	95.66	1,634.31	-129.63	8,823.73	8,752.19	71.54	123.347	
17,100.00	7,870.00	8,264.00	8,063.27	141.43	36.99	95.66	1,634.31	-129.63	8,920.99	8,849.43	71.56	124.665	
17,200.00	7,870.00	8,264.00	8,063.27	143.12	36.99	95.66	1,634.31	-129.63	9,018.32	8,946.73	71.59	125.980	
17,300.00	7,870.00	8,264.00	8,063.27	144.81	36.99	95.66	1,634.31	-129.63	9,115.70	9,044.09	71.61	127.294	
17,400.00	7,870.00	8,264.00	8,063.27	146.50	36.99	95.66	1,634.31	-129.63	9,213.14	9,141.50	71.64	128.605	
17,500.00	7,870.00	8,264.00	8,063.27	148.19	36.99	95.66	1,634.31	-129.63	9,310.63	9,238.96	71.67	129.913	
17,600.00	7,870.00	8,264.00	8,063.27	149.89	36.99	95.66	1,634.31	-129.63	9,408.18	9,336.48	71.70	131.220	
17,700.00	7,870.00	8,264.00	8,063.27	151.59	36.99	95.66	1,634.31	-129.63	9,505.77	9,434.04	71.73	132.524	
17,800.00	7,870.00	8,264.00	8,063.27	153.29	36.99	95.66	1,634.31	-129.63	9,603.42	9,531.66	71.76	133.825	
17,900.00	7,870.00	8,264.00	8,063.27	154.99	36.99	95.66	1,634.31	-129.63	9,701.11	9,629.32	71.79	135.124	
18,000.00	7,870.00	8,264.00	8,063.27	156.69	36.99	95.66	1,634.31	-129.63	9,798.85	9,727.02	71.83	136.421	
18,100.00	7,870.00	8,264.00	8,063.27	158.39	36.99	95.66	1,634.31	-129.63	9,896.64	9,824.77	71.86	137.715	
18,200.00	7,870.00	8,264.00	8,063.27	160.09	36.99	95.66	1,634.31	-129.63	9,994.47	9,922.57	71.90	139.006	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 107-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-11.69	217.84	-45.08	222.68				
100.00	100.00	89.80	89.80	0.13	0.14	-11.74	217.85	-45.28	222.50	222.23	0.28	806.422	
200.00	200.00	190.51	190.50	0.49	0.47	-11.89	217.70	-45.82	222.47	221.51	0.96	231.695	
300.00	300.00	293.21	293.21	0.85	0.83	-12.08	216.77	-46.40	221.70	220.02	1.68	131.603	
400.00	400.00	402.10	402.01	1.21	1.22	-12.35	212.81	-46.60	218.19	215.75	2.43	89.616	
500.00	500.00	509.98	509.57	1.57	1.62	-12.95	204.59	-47.04	210.84	207.65	3.18	66.257	
600.00	600.00	617.48	616.32	1.93	2.04	-13.97	191.98	-47.77	199.58	195.65	3.93	50.807	
700.00	700.00	726.55	723.98	2.29	2.50	-15.05	174.62	-46.96	184.00	179.32	4.68	39.350	
800.00	800.00	831.69	826.74	2.64	2.98	-16.65	152.48	-45.59	163.33	157.93	5.41	30.207	
900.00	900.00	932.46	924.45	3.00	3.49	-19.17	127.86	-44.45	139.68	133.54	6.14	22.753	
1,000.00	1,000.00	1,030.22	1,018.68	3.36	4.00	-23.43	101.83	-44.12	114.62	107.73	6.89	16.636	
1,100.00	1,100.00	1,127.66	1,112.30	3.72	4.54	-30.50	74.83	-44.08	89.67	81.97	7.70	11.642	
1,200.00	1,200.00	1,223.83	1,204.30	4.08	5.10	-43.41	46.79	-44.27	65.98	57.30	8.67	7.607	
1,300.00	1,300.00	1,320.01	1,296.15	4.44	5.66	-67.49	18.27	-44.09	48.12	38.19	9.92	4.849	
1,362.01	1,362.00	1,379.28	1,352.66	4.66	6.02	-133.05	0.41	-43.33	43.79	33.11	10.68	4.102	CC, ES, SF
1,400.00	1,399.98	1,415.20	1,386.82	4.79	6.24	-148.09	-10.70	-42.76	45.66	34.72	10.94	4.172	
1,500.00	1,499.84	1,509.14	1,476.05	5.15	6.82	-177.42	-40.01	-41.13	65.81	54.60	11.21	5.870	
1,600.00	1,599.45	1,601.38	1,563.70	5.51	7.39	168.72	-68.69	-39.49	98.03	86.40	11.62	8.434	
1,700.00	1,698.70	1,694.35	1,651.95	5.87	7.97	161.74	-97.85	-37.53	136.12	123.89	12.23	11.128	
1,800.00	1,797.47	1,786.82	1,740.06	6.24	8.54	158.02	-125.83	-35.02	176.90	163.98	12.92	13.693	
1,900.00	1,895.62	1,877.18	1,826.26	6.63	9.10	155.85	-152.75	-32.11	220.33	206.71	13.62	16.174	
2,000.00	1,993.06	1,971.06	1,916.00	7.04	9.67	154.48	-180.10	-28.57	265.97	251.58	14.39	18.477	
2,100.00	2,089.64	2,063.98	2,005.36	7.48	10.21	153.75	-205.27	-24.74	312.53	297.36	15.17	20.600	
2,200.00	2,185.27	2,151.09	2,089.37	7.94	10.71	153.46	-228.06	-21.52	361.17	345.26	15.91	22.703	
2,300.00	2,279.82	2,238.58	2,173.83	8.45	11.21	153.48	-250.77	-19.14	412.62	395.95	16.67	24.757	
2,400.00	2,373.17	2,320.91	2,253.50	8.99	11.68	153.69	-271.50	-17.72	466.39	449.00	17.39	26.817	
2,500.00	2,465.21	2,398.11	2,328.13	9.58	12.11	154.01	-291.25	-17.71	523.66	505.58	18.08	28.958	
2,574.08	2,532.50	2,454.94	2,383.07	10.04	12.43	154.34	-305.75	-18.70	568.14	549.54	18.60	30.543	
2,600.00	2,555.89	2,475.76	2,403.20	10.21	12.55	154.66	-311.03	-19.26	584.00	565.20	18.79	31.077	
2,700.00	2,646.16	2,558.03	2,482.87	10.88	13.00	155.83	-331.34	-22.00	644.99	625.46	19.53	33.025	
2,800.00	2,736.44	2,637.10	2,559.43	11.57	13.44	156.67	-350.99	-23.79	705.88	685.64	20.24	34.872	
2,900.00	2,826.71	2,715.55	2,635.23	12.27	13.89	157.19	-371.23	-23.82	766.85	745.89	20.96	36.591	
3,000.00	2,916.98	2,786.28	2,703.40	13.00	14.30	157.52	-390.09	-23.07	828.16	806.55	21.61	38.324	
3,100.00	3,007.25	2,860.08	2,774.20	13.73	14.74	157.76	-410.86	-22.09	890.47	868.17	22.30	39.938	
3,200.00	3,097.52	2,949.28	2,859.81	14.48	15.27	157.92	-435.76	-19.46	952.10	928.96	23.14	41.153	
3,300.00	3,187.80	3,023.79	2,931.32	15.23	15.71	158.01	-456.56	-16.99	1,013.64	989.79	23.84	42.514	
3,400.00	3,278.07	3,089.84	2,994.56	15.99	16.12	158.08	-475.52	-14.92	1,075.82	1,051.35	24.47	43.957	
3,500.00	3,368.34	3,157.24	3,058.89	16.76	16.53	158.14	-495.52	-13.04	1,138.84	1,113.72	25.12	45.337	
3,600.00	3,458.61	3,232.59	3,130.81	17.54	17.00	158.27	-517.98	-12.13	1,202.44	1,176.60	25.84	46.527	
3,700.00	3,548.89	3,328.85	3,223.03	18.32	17.58	158.45	-545.56	-11.18	1,265.28	1,238.51	26.77	47.271	
3,800.00	3,639.16	3,414.80	3,305.54	19.10	18.10	158.57	-569.58	-9.50	1,327.27	1,299.68	27.59	48.106	
3,900.00	3,729.43	3,487.33	3,375.07	19.89	18.54	158.62	-590.14	-7.47	1,389.31	1,361.01	28.29	49.101	
4,000.00	3,819.70	3,544.31	3,429.52	20.69	18.89	158.65	-606.81	-5.94	1,452.07	1,423.22	28.85	50.324	
4,100.00	3,909.98	3,602.26	3,484.72	21.48	19.25	158.69	-624.44	-4.96	1,515.97	1,486.55	29.42	51.528	
4,200.00	4,000.25	3,666.58	3,545.95	22.28	19.66	158.78	-644.13	-5.00	1,580.60	1,550.56	30.05	52.605	
4,300.00	4,090.52	3,745.15	3,620.82	23.08	20.15	158.93	-667.95	-6.28	1,645.53	1,614.72	30.81	53.414	
4,400.00	4,180.79	3,830.24	3,702.03	23.88	20.67	159.11	-693.27	-7.94	1,710.17	1,678.54	31.63	54.070	
4,500.00	4,271.06	3,916.24	3,784.23	24.69	21.20	159.26	-718.53	-9.19	1,774.38	1,741.92	32.46	54.663	
4,600.00	4,361.34	4,011.53	3,875.40	25.49	21.78	159.39	-746.25	-9.72	1,838.10	1,804.72	33.38	55.064	
4,700.00	4,451.61	4,145.68	4,004.34	26.30	22.58	159.53	-783.23	-8.92	1,900.41	1,865.75	34.65	54.843	
4,800.00	4,541.88	4,219.85	4,075.96	27.11	23.00	159.62	-802.49	-8.36	1,961.39	1,926.02	35.37	55.455	
4,900.00	4,632.15	4,278.00	4,132.10	27.92	23.34	159.71	-817.66	-8.50	2,022.83	1,986.89	35.94	56.283	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 107-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,335.00	4,186.98	28.74	23.67	159.80	-833.04	-9.36	2,085.29	2,048.80	36.50	57.135	
5,100.00	4,812.70	4,409.84	4,258.96	29.55	24.11	159.93	-853.45	-11.04	2,148.26	2,111.05	37.21	57.726	
5,200.00	4,902.97	4,472.26	4,319.00	30.37	24.48	160.04	-870.44	-12.58	2,211.30	2,173.48	37.82	58.472	
5,300.00	4,993.24	4,529.08	4,373.52	31.18	24.82	160.13	-886.39	-14.21	2,275.07	2,236.70	38.37	59.293	
5,400.00	5,083.51	4,603.17	4,444.46	32.00	25.26	160.24	-907.64	-16.14	2,339.21	2,300.12	39.09	59.846	
5,500.00	5,173.79	4,741.16	4,576.71	32.82	26.09	160.34	-947.02	-16.94	2,402.67	2,362.26	40.41	59.464	
5,600.00	5,264.06	4,944.23	4,773.54	33.63	27.22	160.54	-996.85	-16.02	2,462.51	2,420.28	42.23	58.308	
5,700.00	5,354.33	5,074.68	4,900.76	34.45	27.90	160.63	-1,025.49	-12.78	2,519.95	2,476.55	43.40	58.059	
5,800.00	5,444.60	5,396.65	5,218.89	35.27	29.28	161.26	-1,073.52	-12.51	2,573.75	2,528.01	45.74	56.271	
5,900.00	5,534.88	5,722.98	5,544.82	36.09	30.17	162.22	-1,084.98	-12.39	2,616.26	2,568.72	47.53	55.041	
6,000.00	5,625.15	5,816.41	5,638.24	36.91	30.37	162.49	-1,084.67	-11.37	2,656.88	2,608.63	48.25	55.060	
6,100.00	5,715.42	5,902.55	5,724.38	37.74	30.56	162.74	-1,084.23	-10.69	2,697.54	2,648.59	48.94	55.115	
6,200.00	5,805.69	5,991.38	5,813.20	38.56	30.75	162.99	-1,083.83	-10.20	2,738.39	2,688.74	49.64	55.164	
6,300.00	5,895.96	6,082.97	5,904.79	39.38	30.94	163.25	-1,083.40	-9.74	2,779.28	2,728.93	50.35	55.203	
6,400.00	5,986.24	6,173.53	5,995.35	40.20	31.14	163.50	-1,082.86	-9.43	2,820.19	2,769.15	51.05	55.249	
6,500.00	6,076.51	6,259.99	6,081.81	41.03	31.32	163.74	-1,082.28	-9.36	2,861.20	2,809.47	51.72	55.316	
6,600.00	6,166.78	6,339.89	6,161.71	41.85	31.49	163.95	-1,081.80	-9.59	2,902.47	2,850.09	52.38	55.415	
6,700.00	6,257.05	6,431.53	6,253.34	42.67	31.69	164.20	-1,081.41	-10.08	2,944.02	2,890.95	53.07	55.469	
6,800.00	6,347.33	6,542.57	6,364.38	43.50	31.94	164.49	-1,080.60	-10.36	2,985.26	2,931.41	53.85	55.438	
6,900.00	6,437.60	6,622.62	6,444.43	44.32	32.11	164.69	-1,079.88	-10.39	3,026.31	2,971.81	54.50	55.527	
7,000.00	6,527.87	6,723.11	6,544.91	45.15	32.34	164.93	-1,079.03	-10.62	3,067.53	3,012.29	55.24	55.535	
7,100.00	6,618.14	6,827.27	6,649.07	45.98	32.57	165.18	-1,077.71	-10.62	3,108.34	3,052.35	55.99	55.521	
7,200.00	6,708.41	6,914.19	6,735.98	46.80	32.76	165.37	-1,076.71	-10.16	3,149.04	3,092.37	56.67	55.566	
7,300.00	6,798.69	7,017.91	6,839.69	47.63	33.01	165.58	-1,075.81	-8.86	3,189.69	3,132.25	57.44	55.534	
7,400.00	6,888.96	7,098.20	6,919.96	48.45	33.20	165.73	-1,075.28	-7.49	3,230.29	3,172.18	58.11	55.590	
7,500.00	6,979.23	7,174.27	6,996.02	49.28	33.39	165.87	-1,075.01	-6.35	3,271.27	3,212.51	58.76	55.667	
7,600.00	7,069.50	7,253.17	7,074.92	50.11	33.59	166.01	-1,074.89	-5.59	3,312.67	3,253.24	59.43	55.742	
7,692.09	7,152.63	7,322.47	7,144.22	50.87	33.76	166.15	-1,074.79	-5.33	3,351.07	3,291.05	60.02	55.830	
7,700.00	7,159.79	7,327.72	7,149.47	50.93	33.78	164.75	-1,074.79	-5.32	3,354.35	3,294.28	60.07	55.841	
7,750.00	7,205.70	7,361.31	7,183.06	51.32	33.87	154.72	-1,074.86	-5.33	3,373.19	3,312.82	60.37	55.874	
7,800.00	7,252.52	7,399.08	7,220.82	51.66	33.97	142.28	-1,075.05	-5.43	3,388.69	3,328.00	60.69	55.835	
7,850.00	7,299.89	7,461.74	7,283.48	51.96	34.14	127.67	-1,075.44	-5.29	3,400.52	3,339.39	61.13	55.626	
7,900.00	7,347.44	7,515.00	7,336.74	52.20	34.28	112.14	-1,075.81	-4.73	3,408.51	3,346.98	61.52	55.401	
7,950.00	7,394.83	7,562.46	7,384.19	52.39	34.42	97.82	-1,076.26	-3.99	3,412.76	3,350.88	61.88	55.151	
8,000.00	7,441.68	7,603.78	7,425.51	52.53	34.53	86.14	-1,076.77	-3.21	3,413.33	3,351.13	62.20	54.880	
8,050.00	7,487.65	7,641.62	7,463.34	52.62	34.64	77.34	-1,077.35	-2.50	3,410.30	3,347.82	62.48	54.579	
8,100.00	7,532.37	7,678.50	7,500.20	52.67	34.75	70.99	-1,078.00	-1.82	3,403.74	3,340.99	62.75	54.239	
8,150.00	7,575.52	7,713.85	7,535.54	52.67	34.85	66.56	-1,078.68	-1.26	3,393.72	3,330.72	63.01	53.862	
8,200.00	7,616.76	7,747.67	7,569.35	52.63	34.95	63.60	-1,079.36	-0.83	3,380.35	3,317.10	63.24	53.449	
8,250.00	7,655.77	7,766.00	7,587.68	52.55	35.01	61.65	-1,079.74	-0.64	3,363.77	3,300.38	63.39	53.064	
8,300.00	7,692.27	7,800.51	7,622.18	52.44	35.11	60.81	-1,080.50	-0.43	3,344.11	3,280.49	63.62	52.565	
8,350.00	7,725.97	7,822.50	7,644.16	52.29	35.18	60.66	-1,081.04	-0.41	3,321.61	3,257.83	63.78	52.081	
8,400.00	7,756.62	7,842.63	7,664.28	52.12	35.24	61.21	-1,081.58	-0.46	3,296.42	3,232.49	63.93	51.566	
8,450.00	7,783.98	7,859.00	7,680.65	51.92	35.29	62.40	-1,082.04	-0.56	3,268.72	3,204.67	64.06	51.029	
8,500.00	7,807.85	7,875.16	7,696.80	51.70	35.34	64.27	-1,082.51	-0.71	3,238.73	3,174.54	64.19	50.455	
8,550.00	7,828.05	7,887.65	7,709.28	51.45	35.38	66.76	-1,082.89	-0.88	3,206.67	3,142.36	64.31	49.860	
8,600.00	7,844.41	7,897.97	7,719.60	51.20	35.41	69.92	-1,083.21	-1.06	3,172.77	3,108.33	64.43	49.240	
8,650.00	7,856.82	7,906.05	7,727.67	50.93	35.43	73.75	-1,083.47	-1.21	3,137.25	3,072.70	64.56	48.596	
8,700.00	7,865.18	7,911.83	7,733.45	50.65	35.45	78.25	-1,083.66	-1.33	3,100.39	3,035.70	64.68	47.931	
8,750.00	7,869.43	7,915.26	7,736.87	50.36	35.46	83.40	-1,083.77	-1.41	3,062.43	2,997.61	64.81	47.249	
8,776.25	7,870.00	7,916.10	7,737.71	50.21	35.46	86.34	-1,083.80	-1.43	3,042.15	2,977.26	64.89	46.884	
8,800.00	7,870.00	7,916.56	7,738.17	50.08	35.47	86.36	-1,083.81	-1.44	3,023.75	2,958.80	64.95	46.554	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 107-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,918.52	7,740.13	49.53	35.47	86.42	-1,083.88	-1.49	2,947.11	2,881.86	65.25	45.168	
9,000.00	7,870.00	7,920.49	7,742.10	49.01	35.48	86.47	-1,083.94	-1.53	2,871.90	2,806.32	65.58	43.791	
9,100.00	7,870.00	7,922.48	7,744.09	48.52	35.48	86.53	-1,084.01	-1.58	2,798.25	2,732.29	65.96	42.424	
9,200.00	7,870.00	7,924.49	7,746.09	48.06	35.49	86.59	-1,084.08	-1.63	2,726.27	2,659.89	66.38	41.070	
9,300.00	7,870.00	7,926.51	7,748.12	47.63	35.50	86.65	-1,084.15	-1.69	2,656.10	2,589.25	66.85	39.731	
9,400.00	7,870.00	7,928.56	7,750.16	47.22	35.50	86.72	-1,084.22	-1.74	2,587.89	2,520.52	67.38	38.409	
9,500.00	7,870.00	7,930.63	7,752.22	46.83	35.51	86.78	-1,084.29	-1.79	2,521.80	2,453.85	67.96	37.110	
9,600.00	7,870.00	7,932.71	7,754.31	46.48	35.52	86.84	-1,084.36	-1.85	2,458.00	2,389.41	68.59	35.835	
9,700.00	7,870.00	7,934.81	7,756.41	46.14	35.52	86.90	-1,084.43	-1.91	2,396.68	2,327.39	69.29	34.591	
9,800.00	7,870.00	7,936.94	7,758.53	45.83	35.53	86.97	-1,084.50	-1.97	2,338.02	2,267.98	70.04	33.380	
9,900.00	7,870.00	7,939.08	7,760.67	45.54	35.53	87.03	-1,084.58	-2.03	2,282.23	2,211.37	70.86	32.210	
10,000.00	7,870.00	7,953.00	7,774.58	45.27	35.58	87.45	-1,085.07	-2.47	2,229.58	2,157.74	71.84	31.036	
10,100.00	7,870.00	7,953.00	7,774.58	45.03	35.58	87.45	-1,085.07	-2.47	2,180.18	2,107.43	72.74	29.970	
10,200.00	7,870.00	7,953.00	7,774.58	44.82	35.58	87.45	-1,085.07	-2.47	2,134.32	2,060.62	73.70	28.961	
10,300.00	7,870.00	7,953.00	7,774.58	44.66	35.58	87.45	-1,085.07	-2.47	2,092.24	2,017.55	74.69	28.014	
10,400.00	7,870.00	7,953.00	7,774.58	44.56	35.58	87.45	-1,085.07	-2.47	2,054.17	1,978.46	75.70	27.134	
10,500.00	7,870.00	7,953.00	7,774.58	44.58	35.58	87.45	-1,085.07	-2.47	2,020.33	1,943.59	76.74	26.327	
10,600.00	7,870.00	7,963.81	7,785.37	44.82	35.61	87.77	-1,085.46	-2.80	1,990.94	1,913.05	77.89	25.560	
10,700.00	7,870.00	7,979.51	7,801.05	45.36	35.66	88.24	-1,086.05	-3.20	1,966.18	1,887.09	79.08	24.862	
10,800.00	7,870.00	7,996.29	7,817.82	46.15	35.72	88.74	-1,086.70	-3.51	1,946.21	1,865.96	80.26	24.250	
10,900.00	7,870.00	8,014.28	7,835.79	47.09	35.77	89.28	-1,087.42	-3.72	1,931.19	1,849.80	81.39	23.728	
11,000.00	7,870.00	8,033.59	7,855.09	48.13	35.83	89.85	-1,088.22	-3.79	1,921.22	1,838.75	82.47	23.296	
11,100.00	7,870.00	8,054.40	7,875.88	49.22	35.90	90.47	-1,089.11	-3.69	1,916.38	1,832.90	83.48	22.957	
11,149.35	7,870.00	11,149.35	7,834.13	49.78	45.73	89.23	-1,087.43	-3.29	1,915.62	1,822.18	93.44	20.501	
11,200.00	7,870.00	11,200.00	7,836.13	50.37	45.89	89.29	-1,087.51	-3.32	1,916.49	1,822.51	93.98	20.393	
11,300.00	7,870.00	11,300.00	7,840.09	51.55	46.21	89.40	-1,087.66	-3.37	1,922.13	1,827.15	94.98	20.238	
11,400.00	7,870.00	11,400.00	7,844.05	52.76	46.53	89.52	-1,087.82	-3.43	1,932.92	1,837.05	95.88	20.161	
11,500.00	7,870.00	8,075.06	7,896.52	54.00	35.97	91.09	-1,090.03	-3.52	1,948.74	1,862.78	85.97	22.669	
11,600.00	7,870.00	8,082.05	7,903.50	55.27	35.99	91.30	-1,090.35	-3.44	1,969.44	1,883.11	86.34	22.811	
11,700.00	7,870.00	8,089.18	7,910.62	56.56	36.02	91.51	-1,090.68	-3.35	1,994.93	1,908.33	86.60	23.035	
11,800.00	7,870.00	8,096.47	7,917.90	57.88	36.04	91.73	-1,091.02	-3.25	2,025.03	1,938.26	86.77	23.338	
11,900.00	7,870.00	8,103.91	7,925.33	59.21	36.06	91.95	-1,091.37	-3.14	2,059.53	1,972.68	86.85	23.715	
12,000.00	7,870.00	8,111.51	7,932.93	60.57	36.09	92.18	-1,091.73	-3.02	2,098.22	2,011.38	86.84	24.162	
12,100.00	7,870.00	8,119.29	7,940.69	61.94	36.11	92.41	-1,092.10	-2.89	2,140.86	2,054.10	86.76	24.676	
12,200.00	7,870.00	8,127.23	7,948.63	63.33	36.14	92.65	-1,092.49	-2.74	2,187.23	2,100.62	86.61	25.252	
12,300.00	7,870.00	8,135.36	7,956.74	64.74	36.17	92.89	-1,092.89	-2.58	2,237.10	2,150.68	86.42	25.887	
12,400.00	7,870.00	8,144.22	7,965.59	66.16	36.20	93.16	-1,093.33	-2.39	2,290.23	2,204.05	86.18	26.576	
12,500.00	7,870.00	8,154.07	7,975.42	67.59	36.23	93.45	-1,093.82	-2.16	2,346.40	2,260.49	85.91	27.314	
12,600.00	7,870.00	8,164.22	7,985.56	69.04	36.26	93.75	-1,094.34	-1.90	2,405.39	2,319.79	85.60	28.099	
12,700.00	7,870.00	8,174.71	7,996.03	70.51	36.30	94.07	-1,094.89	-1.62	2,467.01	2,381.73	85.28	28.927	
12,800.00	7,870.00	8,185.55	8,006.85	71.98	36.34	94.39	-1,095.46	-1.30	2,531.06	2,446.12	84.95	29.796	
12,900.00	7,870.00	8,196.74	8,018.02	73.47	36.37	94.72	-1,096.06	-0.94	2,597.36	2,512.76	84.60	30.702	
13,000.00	7,870.00	8,208.32	8,029.57	74.96	36.41	95.07	-1,096.70	-0.55	2,665.74	2,581.49	84.25	31.642	
13,100.00	7,870.00	8,220.30	8,041.53	76.47	36.45	95.42	-1,097.36	-0.12	2,736.04	2,652.15	83.89	32.614	
13,200.00	7,870.00	8,232.70	8,053.90	77.99	36.50	95.79	-1,098.07	0.36	2,808.12	2,724.58	83.54	33.615	
13,300.00	7,870.00	8,245.55	8,066.71	79.51	36.54	96.17	-1,098.81	0.89	2,881.84	2,798.65	83.19	34.642	
13,400.00	7,870.00	8,254.96	8,076.10	81.05	36.57	96.45	-1,099.39	1.25	2,957.09	2,874.25	82.83	35.699	
13,500.00	7,870.00	8,267.54	8,088.64	82.59	36.62	96.83	-1,100.19	1.75	3,033.74	2,951.24	82.50	36.774	
13,600.00	7,870.00	8,281.28	8,102.34	84.14	36.67	97.23	-1,101.10	2.30	3,111.69	3,029.52	82.17	37.868	
13,700.00	7,870.00	8,296.35	8,117.37	85.70	36.72	97.68	-1,102.14	2.90	3,190.84	3,108.98	81.86	38.979	
13,800.00	7,870.00	8,312.97	8,133.93	87.26	36.78	98.17	-1,103.35	3.56	3,271.09	3,189.53	81.56	40.105	
13,900.00	7,870.00	8,331.37	8,152.26	88.83	36.84	98.71	-1,104.76	4.29	3,352.37	3,271.09	81.28	41.244	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 107-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	14,000.00	8,128.46	90.41	57.15	98.01	-1,103.10	3.34	3,434.58	3,335.18	99.40	34.554	
14,100.00	7,870.00	8,338.23	8,159.09	92.00	36.87	98.91	-1,105.28	4.56	3,517.78	3,437.12	80.66	43.612	
14,200.00	7,870.00	8,343.14	8,163.99	93.59	36.89	99.06	-1,105.65	4.75	3,601.78	3,521.41	80.37	44.813	
14,300.00	7,870.00	8,347.97	8,168.80	95.18	36.90	99.20	-1,106.02	4.93	3,686.58	3,606.48	80.10	46.026	
14,400.00	7,870.00	8,352.74	8,173.55	96.79	36.92	99.34	-1,106.37	5.11	3,772.10	3,692.27	79.83	47.250	
14,500.00	7,870.00	8,357.43	8,178.22	98.39	36.94	99.47	-1,106.72	5.29	3,858.32	3,778.74	79.58	48.484	
14,600.00	7,870.00	8,362.04	8,182.83	100.00	36.95	99.61	-1,107.06	5.45	3,945.17	3,865.84	79.34	49.728	
14,700.00	7,870.00	8,366.60	8,187.36	101.62	36.97	99.74	-1,107.39	5.62	4,032.63	3,953.53	79.10	50.979	
14,800.00	7,870.00	8,371.08	8,191.83	103.24	36.99	99.87	-1,107.72	5.78	4,120.65	4,041.77	78.88	52.239	
14,900.00	7,870.00	8,375.50	8,196.23	104.87	37.00	100.00	-1,108.04	5.94	4,209.20	4,130.53	78.67	53.505	
15,000.00	7,870.00	8,379.85	8,200.57	106.50	37.02	100.13	-1,108.35	6.09	4,298.24	4,219.77	78.47	54.778	
15,100.00	7,870.00	8,384.14	8,204.85	108.13	37.03	100.26	-1,108.65	6.24	4,387.75	4,309.48	78.27	56.056	
15,200.00	7,870.00	8,388.36	8,209.06	109.77	37.05	100.38	-1,108.95	6.38	4,477.69	4,399.60	78.09	57.340	
15,300.00	7,870.00	8,392.53	8,213.22	111.41	37.06	100.50	-1,109.24	6.52	4,568.05	4,490.14	77.91	58.629	
15,400.00	7,870.00	8,396.64	8,217.31	113.05	37.08	100.62	-1,109.53	6.66	4,658.80	4,581.05	77.75	59.923	
15,500.00	7,870.00	8,400.69	8,221.35	114.70	37.09	100.74	-1,109.81	6.79	4,749.91	4,672.32	77.59	61.220	
15,600.00	7,870.00	8,404.68	8,225.33	116.35	37.11	100.86	-1,110.08	6.92	4,841.36	4,763.93	77.44	62.521	
15,700.00	7,870.00	8,420.00	8,240.61	118.00	37.16	101.30	-1,111.11	7.41	4,933.17	4,855.85	77.32	63.803	
15,800.00	7,870.00	8,420.00	8,240.61	119.66	37.16	101.30	-1,111.11	7.41	5,025.24	4,948.07	77.17	65.118	
15,900.00	7,870.00	8,420.00	8,240.61	121.32	37.16	101.30	-1,111.11	7.41	5,117.62	5,040.58	77.03	66.434	
16,000.00	7,870.00	8,420.00	8,240.61	122.98	37.16	101.30	-1,111.11	7.41	5,210.27	5,133.37	76.90	67.754	
16,100.00	7,870.00	8,420.00	8,240.61	124.65	37.16	101.30	-1,111.11	7.41	5,303.20	5,226.42	76.77	69.075	
16,200.00	7,870.00	8,420.00	8,240.61	126.32	37.16	101.30	-1,111.11	7.41	5,396.37	5,319.72	76.65	70.398	
16,300.00	7,870.00	8,420.00	8,240.61	127.99	37.16	101.30	-1,111.11	7.41	5,489.79	5,413.25	76.54	71.723	
16,400.00	7,870.00	8,420.00	8,240.61	129.66	37.16	101.30	-1,111.11	7.41	5,583.43	5,507.00	76.43	73.049	
16,500.00	7,870.00	8,420.00	8,240.61	131.33	37.16	101.30	-1,111.11	7.41	5,677.29	5,600.96	76.33	74.376	
16,600.00	7,870.00	8,440.58	8,261.14	133.01	37.23	101.90	-1,112.45	8.02	5,771.29	5,695.01	76.28	75.660	
16,700.00	7,870.00	8,443.84	8,264.38	134.69	37.24	101.99	-1,112.65	8.11	5,865.53	5,789.33	76.19	76.981	
16,800.00	7,870.00	8,447.05	8,267.59	136.37	37.25	102.08	-1,112.86	8.20	5,959.95	5,883.84	76.12	78.302	
16,900.00	7,870.00	8,450.21	8,270.75	138.06	37.27	102.18	-1,113.06	8.29	6,054.55	5,978.51	76.04	79.624	
17,000.00	7,870.00	8,453.34	8,273.87	139.74	37.28	102.27	-1,113.25	8.37	6,149.32	6,073.35	75.97	80.945	
17,100.00	7,870.00	8,456.43	8,276.94	141.43	37.29	102.35	-1,113.44	8.46	6,244.25	6,168.35	75.90	82.267	
17,200.00	7,870.00	8,459.47	8,279.98	143.12	37.30	102.44	-1,113.63	8.54	6,339.33	6,263.49	75.84	83.588	
17,300.00	7,870.00	8,462.48	8,282.98	144.81	37.31	102.53	-1,113.81	8.61	6,434.56	6,358.77	75.78	84.909	
17,400.00	7,870.00	8,465.45	8,285.95	146.50	37.32	102.61	-1,113.99	8.69	6,529.92	6,454.20	75.73	86.230	
17,500.00	7,870.00	8,468.38	8,288.87	148.19	37.33	102.70	-1,114.17	8.76	6,625.42	6,549.75	75.68	87.549	
17,600.00	7,870.00	8,471.27	8,291.76	149.89	37.34	102.78	-1,114.34	8.84	6,721.05	6,645.42	75.63	88.868	
17,700.00	7,870.00	8,474.13	8,294.61	151.59	37.35	102.86	-1,114.51	8.91	6,816.81	6,741.22	75.59	90.186	
17,800.00	7,870.00	8,476.95	8,297.42	153.29	37.36	102.94	-1,114.68	8.98	6,912.68	6,837.13	75.55	91.503	
17,900.00	7,870.00	8,479.74	8,300.21	154.99	37.37	103.02	-1,114.84	9.04	7,008.66	6,933.15	75.51	92.819	
18,000.00	7,870.00	8,482.49	8,302.95	156.69	37.38	103.10	-1,115.00	9.11	7,104.75	7,029.28	75.47	94.134	
18,100.00	7,870.00	8,485.21	8,305.67	158.39	37.39	103.18	-1,115.16	9.17	7,200.95	7,125.50	75.44	95.448	
18,200.00	7,870.00	8,487.89	8,308.35	160.09	37.40	103.26	-1,115.31	9.23	7,297.24	7,221.83	75.42	96.760	
18,300.00	7,870.00	8,490.55	8,310.99	161.80	37.41	103.33	-1,115.47	9.29	7,393.63	7,318.24	75.39	98.070	
18,400.00	7,870.00	8,514.00	8,334.41	163.51	37.49	104.00	-1,116.77	9.79	7,490.18	7,414.77	75.41	99.322	
18,455.45	7,870.00	8,514.00	8,334.41	164.45	37.49	104.00	-1,116.77	9.79	7,543.71	7,468.31	75.40	100.051	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-6.67	217.84	-25.48	219.56				
100.00	100.00	87.89	87.89	0.13	0.14	-6.64	218.28	-25.42	219.76	219.48	0.28	786.756	
200.00	200.00	188.80	188.78	0.49	0.40	-6.45	219.50	-24.83	220.90	220.01	0.90	246.437	
300.00	300.00	293.47	293.39	0.85	0.78	-5.53	219.37	-21.25	220.42	218.79	1.63	135.313	
400.00	400.00	395.84	395.44	1.21	1.16	-3.56	217.75	-13.54	218.24	215.88	2.37	92.269	
500.00	500.00	495.18	494.02	1.57	1.55	-0.37	215.91	-1.39	215.96	212.84	3.11	69.343	
600.00	600.00	600.58	598.10	1.93	1.99	3.99	212.56	14.83	213.23	209.31	3.92	54.435	
700.00	700.00	696.45	692.22	2.29	2.43	8.88	208.19	32.54	210.73	206.02	4.72	44.676	
722.34	722.34	717.04	712.34	2.37	2.53	10.07	207.37	36.82	210.61	205.72	4.90	42.995	CC, ES
800.00	800.00	787.20	780.66	2.64	2.88	14.37	205.31	52.62	212.15	206.63	5.52	38.420	
900.00	900.00	868.93	859.87	3.00	3.31	19.36	206.76	72.64	221.21	214.95	6.27	35.295	
1,000.00	1,000.00	969.72	957.26	3.36	3.85	24.96	211.12	98.25	235.15	228.04	7.12	33.045	
1,100.00	1,100.00	1,068.13	1,052.32	3.72	4.39	30.09	213.24	123.58	249.33	241.39	7.93	31.429	
1,200.00	1,200.00	1,163.10	1,143.80	4.08	4.92	34.72	215.06	149.02	265.70	256.98	8.71	30.503	
1,300.00	1,300.00	1,259.71	1,236.88	4.44	5.47	38.82	217.22	174.79	283.83	274.35	9.48	29.949	
1,400.00	1,399.98	1,351.97	1,326.15	4.79	5.99	-1.11	220.97	197.77	301.63	291.45	10.18	29.630	
1,500.00	1,499.84	1,444.55	1,415.42	5.15	6.51	1.31	227.41	221.46	319.24	308.37	10.87	29.364	
1,600.00	1,599.45	1,541.44	1,508.81	5.51	7.06	3.58	234.32	246.31	334.18	322.60	11.58	28.862	
1,700.00	1,698.70	1,635.36	1,599.07	5.87	7.60	5.66	241.56	271.23	347.22	334.97	12.26	28.330	
1,800.00	1,797.47	1,734.60	1,694.36	6.24	8.18	7.56	250.69	297.44	358.14	345.17	12.98	27.600	
1,900.00	1,895.62	1,836.46	1,792.45	6.63	8.76	9.39	260.02	323.24	365.09	351.37	13.71	26.624	
2,000.00	1,993.06	1,944.70	1,896.97	7.04	9.37	11.45	268.80	349.92	367.81	353.32	14.50	25.367	
2,100.00	2,089.64	2,045.55	1,994.74	7.48	9.93	13.71	274.72	373.97	365.60	350.38	15.22	24.028	
2,200.00	2,185.27	2,139.99	2,086.17	7.94	10.46	16.01	280.45	396.88	361.07	345.19	15.88	22.739	
2,300.00	2,279.82	2,236.93	2,179.84	8.45	11.01	18.56	287.07	420.98	354.77	338.21	16.57	21.412	
2,400.00	2,373.17	2,343.50	2,283.07	8.99	11.61	21.71	293.87	446.55	344.99	327.64	17.35	19.880	
2,500.00	2,465.21	2,441.50	2,378.31	9.58	12.14	25.10	299.51	468.92	331.67	313.58	18.09	18.335	
2,574.08	2,532.50	2,512.96	2,447.80	10.04	12.52	27.89	303.87	485.03	320.44	301.78	18.66	17.176	
2,600.00	2,555.89	2,536.99	2,471.16	10.21	12.65	28.86	305.36	490.46	316.42	297.57	18.86	16.780	
2,700.00	2,646.16	2,628.35	2,559.71	10.88	13.16	33.04	309.81	512.49	303.08	283.41	19.67	15.409	
2,800.00	2,736.44	2,725.48	2,653.77	11.57	13.71	38.07	313.28	536.48	292.17	271.51	20.66	14.143	
2,900.00	2,826.71	2,819.08	2,744.30	12.27	14.24	43.11	317.21	559.88	284.09	262.33	21.76	13.057	
3,000.00	2,916.98	2,914.18	2,836.21	13.00	14.78	48.58	320.59	584.09	279.10	256.05	23.05	12.111	
3,100.00	3,007.25	3,009.25	2,928.05	13.73	15.33	54.28	323.38	608.50	277.29	252.78	24.51	11.315	
3,105.39	3,012.12	3,014.38	2,933.00	13.77	15.36	54.59	323.54	609.83	277.28	252.70	24.59	11.277	
3,200.00	3,097.52	3,105.96	3,021.34	14.48	15.90	59.89	327.20	633.66	278.62	252.50	26.12	10.669	
3,300.00	3,187.80	3,206.23	3,118.19	15.23	16.47	65.31	332.98	659.00	281.44	253.60	27.85	10.107	
3,400.00	3,278.07	3,304.11	3,212.80	15.99	17.03	70.39	339.25	683.31	286.07	256.47	29.60	9.665	
3,500.00	3,368.34	3,402.38	3,308.01	16.76	17.58	75.39	345.54	706.83	292.17	260.79	31.38	9.310	
3,600.00	3,458.61	3,497.21	3,399.96	17.54	18.11	80.08	351.19	729.32	300.54	267.42	33.11	9.076	
3,700.00	3,548.89	3,590.04	3,490.10	18.32	18.62	84.66	355.16	751.15	311.86	277.08	34.79	8.965	
3,800.00	3,639.16	3,685.94	3,583.09	19.10	19.15	89.05	358.69	774.29	326.11	289.69	36.43	8.953	SF
3,900.00	3,729.43	3,782.92	3,677.28	19.89	19.68	93.15	362.77	797.02	341.35	303.34	38.00	8.982	
4,000.00	3,819.70	3,877.85	3,769.36	20.69	20.21	96.77	366.52	819.78	358.72	319.25	39.47	9.088	
4,100.00	3,909.98	3,975.31	3,863.99	21.48	20.75	100.19	370.57	842.77	377.08	336.17	40.90	9.218	
4,200.00	4,000.25	4,077.55	3,963.32	22.28	21.30	103.45	375.31	866.50	396.07	353.74	42.33	9.357	
4,300.00	4,090.52	4,173.81	4,057.02	23.08	21.82	106.27	381.05	887.82	414.46	370.84	43.62	9.501	
4,400.00	4,180.79	4,268.90	4,149.54	23.88	22.33	108.84	385.89	909.23	434.69	389.84	44.85	9.692	
4,500.00	4,271.06	4,368.11	4,246.09	24.69	22.85	111.28	391.44	931.35	455.20	409.12	46.08	9.879	
4,600.00	4,361.34	4,457.09	4,332.91	25.49	23.32	113.41	395.93	950.29	476.57	429.43	47.14	10.109	
4,700.00	4,451.61	4,551.00	4,424.25	26.30	23.82	115.34	399.62	971.82	500.13	451.89	48.24	10.367	
4,800.00	4,541.88	4,650.64	4,521.20	27.11	24.36	117.23	404.02	994.34	523.68	474.28	49.40	10.601	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 139-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,632.15	4,743.73	4,611.80	27.92	24.86	118.85	408.37	1,015.31	547.46	497.01	50.45	10.851	
5,000.00	4,722.43	4,828.92	4,694.80	28.74	25.31	120.27	411.23	1,034.27	572.81	521.44	51.36	11.152	
5,100.00	4,812.70	4,920.46	4,784.44	29.55	25.76	121.90	412.23	1,052.77	600.21	547.92	52.29	11.479	
5,200.00	4,902.97	5,017.23	4,879.82	30.37	26.20	123.79	412.93	1,069.03	627.84	574.65	53.19	11.804	
5,300.00	4,993.24	5,112.08	4,973.71	31.18	26.59	125.71	413.43	1,082.51	655.86	601.88	53.98	12.151	
5,400.00	5,083.51	5,206.05	5,066.98	32.00	26.95	127.63	413.78	1,094.00	684.45	629.76	54.69	12.515	
5,500.00	5,173.79	5,300.36	5,160.83	32.82	27.29	129.58	414.01	1,103.27	713.66	658.33	55.33	12.899	
5,600.00	5,264.06	5,393.57	5,253.82	33.63	27.59	131.60	414.21	1,109.47	743.48	687.62	55.86	13.310	
5,700.00	5,354.33	5,484.57	5,344.74	34.45	27.86	133.58	414.36	1,113.54	774.14	717.84	56.30	13.749	
5,800.00	5,444.60	5,576.56	5,436.66	35.27	28.12	135.51	414.44	1,116.72	805.74	749.01	56.72	14.205	
5,900.00	5,534.88	5,668.35	5,528.42	36.09	28.37	137.34	414.69	1,119.18	838.00	780.88	57.12	14.671	
6,000.00	5,625.15	5,757.66	5,617.72	36.91	28.60	139.09	414.97	1,120.21	871.11	813.65	57.46	15.161	
6,100.00	5,715.42	5,848.04	5,708.11	37.74	28.82	140.80	415.18	1,120.28	905.15	847.37	57.78	15.666	
6,200.00	5,805.69	5,937.97	5,798.04	38.56	29.04	142.41	415.52	1,120.06	939.81	881.72	58.09	16.179	
6,300.00	5,895.96	6,027.03	5,887.10	39.38	29.25	143.90	415.68	1,119.75	975.32	916.92	58.40	16.702	
6,400.00	5,986.24	6,117.94	5,978.00	40.20	29.46	145.34	415.93	1,119.21	1,011.39	952.66	58.73	17.222	
6,500.00	6,076.51	6,207.03	6,067.09	41.03	29.67	146.66	416.20	1,118.53	1,048.00	988.94	59.05	17.747	
6,600.00	6,166.78	6,294.89	6,154.94	41.85	29.87	147.88	416.28	1,117.88	1,085.29	1,025.90	59.38	18.276	
6,700.00	6,257.05	6,384.99	6,245.05	42.67	30.08	149.07	416.34	1,116.88	1,123.11	1,063.37	59.74	18.800	
6,800.00	6,347.33	6,475.94	6,335.98	43.50	30.30	150.22	416.63	1,115.47	1,161.25	1,101.14	60.11	19.319	
6,900.00	6,437.60	6,561.72	6,421.75	44.32	30.50	151.24	416.82	1,113.99	1,199.90	1,139.45	60.45	19.851	
7,000.00	6,527.87	6,642.86	6,502.88	45.15	30.68	152.15	416.53	1,112.55	1,239.39	1,178.64	60.76	20.400	
7,100.00	6,618.14	6,741.85	6,601.85	45.98	30.92	153.19	416.10	1,111.10	1,279.20	1,217.95	61.25	20.884	
7,200.00	6,708.41	6,847.71	6,707.71	46.80	31.19	154.18	416.47	1,110.59	1,318.31	1,256.46	61.85	21.315	
7,300.00	6,798.69	6,941.90	6,801.89	47.63	31.45	154.97	417.10	1,111.23	1,357.04	1,294.66	62.38	21.753	
7,400.00	6,888.96	7,033.31	6,893.29	48.45	31.71	155.68	417.66	1,112.32	1,395.86	1,332.95	62.92	22.185	
7,500.00	6,979.23	7,127.11	6,987.09	49.28	31.98	156.36	418.39	1,113.41	1,434.73	1,371.24	63.48	22.600	
7,600.00	7,069.50	7,220.65	7,080.61	50.11	32.25	157.00	419.18	1,114.82	1,473.57	1,409.51	64.06	23.002	
7,692.09	7,152.63	7,306.12	7,166.07	50.87	32.50	157.55	419.96	1,116.26	1,509.36	1,444.76	64.60	23.365	
7,700.00	7,159.79	7,313.85	7,173.79	50.93	32.52	156.26	420.04	1,116.38	1,512.38	1,447.74	64.65	23.394	
7,750.00	7,205.70	7,363.32	7,223.25	51.32	32.67	146.85	420.70	1,116.99	1,529.31	1,464.37	64.94	23.548	
7,800.00	7,252.52	7,408.21	7,268.14	51.66	32.79	134.96	421.45	1,117.32	1,542.41	1,477.24	65.17	23.668	
7,850.00	7,299.89	7,446.75	7,306.68	51.96	32.90	120.72	421.97	1,117.44	1,551.88	1,486.58	65.31	23.763	
7,900.00	7,347.44	7,485.55	7,345.47	52.20	33.01	105.54	422.31	1,117.43	1,557.77	1,492.36	65.42	23.812	
7,950.00	7,394.83	7,530.87	7,390.79	52.39	33.13	91.65	422.60	1,117.30	1,559.97	1,494.41	65.56	23.796	
8,000.00	7,441.68	7,575.62	7,435.54	52.53	33.25	80.41	422.84	1,117.11	1,558.39	1,492.73	65.66	23.735	
8,050.00	7,487.65	7,620.45	7,480.37	52.62	33.37	72.09	423.07	1,116.84	1,553.11	1,487.38	65.73	23.627	
8,100.00	7,532.37	7,664.01	7,523.93	52.67	33.49	66.24	423.33	1,116.46	1,544.20	1,478.42	65.77	23.478	
8,150.00	7,575.52	7,705.84	7,565.76	52.67	33.60	62.33	423.58	1,116.04	1,531.78	1,466.01	65.77	23.290	
8,200.00	7,616.76	7,745.85	7,605.76	52.63	33.70	59.92	423.76	1,115.68	1,516.03	1,450.29	65.74	23.062	
8,250.00	7,655.77	7,784.15	7,644.06	52.55	33.80	58.70	423.89	1,115.36	1,497.11	1,431.43	65.68	22.795	
8,300.00	7,692.27	7,820.41	7,680.32	52.44	33.90	58.49	423.99	1,115.09	1,475.22	1,409.63	65.59	22.491	
8,350.00	7,725.97	7,853.91	7,713.82	52.29	33.99	59.13	424.08	1,114.86	1,450.58	1,385.10	65.48	22.154	
8,400.00	7,756.62	7,887.58	7,747.49	52.12	34.08	60.66	424.18	1,114.66	1,423.43	1,358.06	65.38	21.773	
8,450.00	7,783.98	7,918.11	7,778.01	51.92	34.17	62.94	424.31	1,114.55	1,394.00	1,328.75	65.25	21.363	
8,500.00	7,807.85	7,944.59	7,804.50	51.70	34.24	65.90	424.47	1,114.50	1,362.61	1,297.50	65.10	20.930	
8,550.00	7,828.05	7,966.85	7,826.76	51.45	34.30	69.50	424.63	1,114.50	1,329.57	1,264.64	64.93	20.476	
8,600.00	7,844.41	7,984.30	7,844.20	51.20	34.35	73.62	424.77	1,114.52	1,295.23	1,230.49	64.74	20.006	
8,650.00	7,856.82	7,997.51	7,857.42	50.93	34.39	78.20	424.88	1,114.55	1,259.91	1,195.38	64.54	19.523	
8,700.00	7,865.18	8,006.22	7,866.12	50.65	34.41	83.09	424.96	1,114.57	1,223.95	1,159.63	64.32	19.029	
8,750.00	7,869.43	8,010.37	7,870.28	50.36	34.43	88.11	425.00	1,114.58	1,187.65	1,123.55	64.10	18.529	
8,776.25	7,870.00	8,010.73	7,870.63	50.21	34.43	90.76	425.00	1,114.59	1,168.56	1,104.58	63.98	18.265	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	8,010.48	7,870.39	50.08	34.43	90.74	425.00	1,114.58	1,151.42	1,087.55	63.87	18.028	
8,900.00	7,870.00	8,009.45	7,869.36	49.53	34.42	90.67	424.99	1,114.58	1,081.98	1,018.53	63.45	17.053	
9,000.00	7,870.00	8,008.44	7,868.34	49.01	34.42	90.60	424.98	1,114.58	1,017.64	954.54	63.11	16.126	
9,100.00	7,870.00	8,007.43	7,867.34	48.52	34.42	90.52	424.97	1,114.57	959.43	896.53	62.90	15.253	
9,200.00	7,870.00	8,006.43	7,866.34	48.06	34.42	90.45	424.96	1,114.57	908.52	845.61	62.91	14.442	
9,300.00	7,870.00	8,005.44	7,865.35	47.63	34.41	90.38	424.95	1,114.57	866.21	803.01	63.20	13.707	
9,400.00	7,870.00	8,004.46	7,864.37	47.22	34.41	90.31	424.95	1,114.57	833.80	769.97	63.83	13.064	
9,500.00	7,870.00	8,003.49	7,863.39	46.83	34.41	90.24	424.94	1,114.56	812.48	747.66	64.82	12.535	
9,600.00	7,870.00	8,002.53	7,862.43	46.48	34.40	90.17	424.93	1,114.56	803.13	737.00	66.12	12.146	
9,625.51	7,870.00	8,002.28	7,862.19	46.39	34.40	90.16	424.93	1,114.56	802.72	736.22	66.51	12.070	
9,700.00	7,870.00	8,001.57	7,861.48	46.14	34.40	90.11	424.92	1,114.56	806.17	738.53	67.64	11.918	
9,800.00	7,870.00	8,000.62	7,860.53	45.83	34.40	90.04	424.91	1,114.56	821.47	752.24	69.23	11.865	
9,900.00	7,870.00	7,999.69	7,859.59	45.54	34.40	89.97	424.90	1,114.55	848.35	777.60	70.75	11.991	
10,000.00	7,870.00	7,998.76	7,858.66	45.27	34.39	89.90	424.89	1,114.55	885.78	813.67	72.10	12.285	
10,100.00	7,870.00	7,997.83	7,857.74	45.03	34.39	89.84	424.89	1,114.55	932.46	859.24	73.23	12.734	
10,200.00	7,870.00	7,996.92	7,856.83	44.82	34.39	89.77	424.88	1,114.55	987.11	912.98	74.13	13.316	
10,300.00	7,870.00	7,996.01	7,855.92	44.66	34.39	89.71	424.87	1,114.54	1,048.46	973.64	74.82	14.014	
10,400.00	7,870.00	7,995.12	7,855.02	44.56	34.38	89.64	424.86	1,114.54	1,115.42	1,040.09	75.33	14.808	
10,500.00	7,870.00	7,994.23	7,854.13	44.58	34.38	89.58	424.85	1,114.54	1,187.03	1,111.33	75.70	15.682	
10,600.00	7,870.00	7,993.34	7,853.25	44.82	34.38	89.52	424.85	1,114.54	1,262.51	1,186.55	75.95	16.622	
10,700.00	7,870.00	7,992.47	7,852.37	45.36	34.37	89.46	424.84	1,114.54	1,341.19	1,265.07	76.12	17.619	
10,800.00	7,870.00	7,991.60	7,851.51	46.15	34.37	89.39	424.83	1,114.53	1,422.56	1,346.33	76.23	18.662	
10,900.00	7,870.00	7,990.74	7,850.65	47.09	34.37	89.33	424.82	1,114.53	1,506.17	1,429.89	76.29	19.743	
11,000.00	7,870.00	7,989.88	7,849.79	48.13	34.37	89.27	424.82	1,114.53	1,591.68	1,515.36	76.31	20.857	
11,100.00	7,870.00	7,989.04	7,848.95	49.22	34.37	89.21	424.81	1,114.53	1,678.78	1,602.47	76.31	21.999	
11,200.00	7,870.00	7,988.20	7,848.11	50.37	34.36	89.15	424.80	1,114.53	1,767.25	1,690.96	76.29	23.164	
11,300.00	7,870.00	7,987.37	7,847.27	51.55	34.36	89.09	424.79	1,114.53	1,856.90	1,780.63	76.26	24.349	
11,400.00	7,870.00	7,986.54	7,846.45	52.76	34.36	89.03	424.79	1,114.52	1,947.55	1,871.32	76.22	25.551	
11,500.00	7,870.00	7,985.72	7,845.63	54.00	34.36	88.97	424.78	1,114.52	2,039.07	1,962.89	76.18	26.768	
11,600.00	7,870.00	7,984.91	7,844.82	55.27	34.35	88.92	424.77	1,114.52	2,131.35	2,055.23	76.13	27.997	
11,700.00	7,870.00	7,984.10	7,844.01	56.56	34.35	88.86	424.77	1,114.52	2,224.31	2,148.23	76.08	29.238	
11,800.00	7,870.00	7,983.31	7,843.21	57.88	34.35	88.80	424.76	1,114.52	2,317.84	2,241.82	76.02	30.488	
11,900.00	7,870.00	7,982.51	7,842.42	59.21	34.35	88.75	424.75	1,114.52	2,411.90	2,335.93	75.97	31.747	
12,000.00	7,870.00	7,981.73	7,841.63	60.57	34.34	88.69	424.75	1,114.52	2,506.42	2,430.49	75.92	33.012	
12,100.00	7,870.00	7,980.95	7,840.85	61.94	34.34	88.63	424.74	1,114.52	2,601.34	2,525.47	75.87	34.285	
12,200.00	7,870.00	7,980.17	7,840.08	63.33	34.34	88.58	424.74	1,114.51	2,696.64	2,620.81	75.83	35.563	
12,300.00	7,870.00	7,979.41	7,839.31	64.74	34.34	88.52	424.73	1,114.51	2,792.26	2,716.48	75.78	36.846	
12,400.00	7,870.00	7,978.64	7,838.55	66.16	34.34	88.47	424.72	1,114.51	2,888.18	2,812.44	75.74	38.133	
12,500.00	7,870.00	7,977.89	7,837.80	67.59	34.33	88.42	424.72	1,114.51	2,984.36	2,908.66	75.70	39.424	
12,600.00	7,870.00	7,977.14	7,837.05	69.04	34.33	88.36	424.71	1,114.51	3,080.79	3,005.13	75.66	40.718	
12,700.00	7,870.00	7,976.39	7,836.30	70.51	34.33	88.31	424.70	1,114.51	3,177.44	3,101.82	75.63	42.015	
12,800.00	7,870.00	7,975.66	7,835.56	71.98	34.33	88.26	424.70	1,114.51	3,274.29	3,198.70	75.59	43.315	
12,900.00	7,870.00	7,974.92	7,834.83	73.47	34.32	88.20	424.69	1,114.51	3,371.33	3,295.77	75.56	44.617	
13,000.00	7,870.00	7,974.20	7,834.11	74.96	34.32	88.15	424.69	1,114.51	3,468.53	3,393.00	75.53	45.920	
13,100.00	7,870.00	7,973.48	7,833.38	76.47	34.32	88.10	424.68	1,114.51	3,565.89	3,490.38	75.51	47.226	
13,200.00	7,870.00	7,972.76	7,832.67	77.99	34.32	88.05	424.68	1,114.51	3,663.39	3,587.90	75.48	48.532	
13,300.00	7,870.00	7,972.05	7,831.96	79.51	34.32	88.00	424.67	1,114.50	3,761.02	3,685.55	75.46	49.840	
13,400.00	7,870.00	7,971.35	7,831.25	81.05	34.31	87.95	424.66	1,114.50	3,858.77	3,783.33	75.44	51.148	
13,500.00	7,870.00	7,970.65	7,830.56	82.59	34.31	87.90	424.66	1,114.50	3,956.63	3,881.21	75.43	52.458	
13,600.00	7,870.00	7,969.95	7,829.86	84.14	34.31	87.85	424.65	1,114.50	4,054.60	3,979.19	75.41	53.768	
13,700.00	7,870.00	7,969.27	7,829.17	85.70	34.31	87.80	424.65	1,114.50	4,152.66	4,077.27	75.40	55.078	
13,800.00	7,870.00	7,968.58	7,828.49	87.26	34.31	87.75	424.64	1,114.50	4,250.82	4,175.43	75.38	56.388	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	7,870.00	7,967.90	7,827.81	88.83	34.30	87.70	424.64	1,114.50	4,349.06	4,273.68	75.38	57.699	
14,000.00	7,870.00	7,967.23	7,827.14	90.41	34.30	87.66	424.63	1,114.50	4,447.38	4,372.01	75.37	59.009	
14,100.00	7,870.00	7,966.56	7,826.47	92.00	34.30	87.61	424.63	1,114.50	4,545.77	4,470.40	75.36	60.319	
14,200.00	7,870.00	7,965.90	7,825.81	93.59	34.30	87.56	424.62	1,114.50	4,644.23	4,568.87	75.36	61.629	
14,300.00	7,870.00	7,965.24	7,825.15	95.18	34.30	87.51	424.62	1,114.50	4,742.75	4,667.39	75.36	62.939	
14,400.00	7,870.00	7,964.59	7,824.49	96.79	34.29	87.47	424.61	1,114.50	4,841.33	4,765.98	75.35	64.248	
14,500.00	7,870.00	7,963.94	7,823.84	98.39	34.29	87.42	424.61	1,114.50	4,939.97	4,864.62	75.35	65.556	
14,600.00	7,870.00	7,963.29	7,823.20	100.00	34.29	87.38	424.60	1,114.50	5,038.67	4,963.31	75.36	66.864	
14,700.00	7,870.00	7,962.65	7,822.56	101.62	34.29	87.33	424.60	1,114.50	5,137.41	5,062.05	75.36	68.171	
14,800.00	7,870.00	7,962.02	7,821.92	103.24	34.29	87.28	424.59	1,114.50	5,236.20	5,160.84	75.37	69.477	
14,900.00	7,870.00	7,961.39	7,821.29	104.87	34.29	87.24	424.59	1,114.50	5,335.04	5,259.67	75.37	70.782	
15,000.00	7,870.00	7,960.76	7,820.67	106.50	34.28	87.20	424.58	1,114.50	5,433.92	5,358.54	75.38	72.086	
15,100.00	7,870.00	7,960.14	7,820.05	108.13	34.28	87.15	424.58	1,114.50	5,532.84	5,457.45	75.39	73.389	
15,200.00	7,870.00	7,959.52	7,819.43	109.77	34.28	87.11	424.58	1,114.50	5,631.80	5,556.40	75.40	74.691	
15,300.00	7,870.00	7,958.91	7,818.82	111.41	34.28	87.06	424.57	1,114.50	5,730.79	5,655.38	75.41	75.992	
15,400.00	7,870.00	7,958.30	7,818.21	113.05	34.28	87.02	424.57	1,114.50	5,829.82	5,754.39	75.43	77.291	
15,500.00	7,870.00	7,957.70	7,817.60	114.70	34.27	86.98	424.56	1,114.50	5,928.88	5,853.44	75.44	78.589	
15,600.00	7,870.00	7,957.10	7,817.00	116.35	34.27	86.93	424.56	1,114.50	6,027.97	5,952.52	75.46	79.886	
15,700.00	7,870.00	7,956.50	7,816.41	118.00	34.27	86.89	424.55	1,114.50	6,127.09	6,051.62	75.47	81.181	
15,800.00	7,870.00	7,955.91	7,815.82	119.66	34.27	86.85	424.55	1,114.50	6,226.24	6,150.75	75.49	82.475	
15,900.00	7,870.00	7,955.32	7,815.23	121.32	34.27	86.81	424.55	1,114.50	6,325.42	6,249.91	75.51	83.767	
16,000.00	7,870.00	7,954.74	7,814.65	122.98	34.27	86.77	424.54	1,114.50	6,424.62	6,349.09	75.53	85.057	
16,100.00	7,870.00	7,954.16	7,814.07	124.65	34.26	86.73	424.54	1,114.50	6,523.85	6,448.29	75.55	86.346	
16,200.00	7,870.00	7,953.58	7,813.49	126.32	34.26	86.68	424.53	1,114.50	6,623.10	6,547.52	75.58	87.633	
16,300.00	7,870.00	7,952.00	7,811.91	127.99	34.26	86.57	424.52	1,114.50	6,722.37	6,646.77	75.60	88.918	
16,400.00	7,870.00	7,952.00	7,811.91	129.66	34.26	86.57	424.52	1,114.50	6,821.66	6,746.03	75.63	90.202	
16,500.00	7,870.00	7,952.00	7,811.91	131.33	34.26	86.57	424.52	1,114.50	6,920.97	6,845.32	75.65	91.484	
16,600.00	7,870.00	7,952.00	7,811.91	133.01	34.26	86.57	424.52	1,114.50	7,020.30	6,944.63	75.68	92.765	
16,700.00	7,870.00	7,952.00	7,811.91	134.69	34.26	86.57	424.52	1,114.50	7,119.66	7,043.95	75.71	94.043	
16,800.00	7,870.00	7,952.00	7,811.91	136.37	34.26	86.57	424.52	1,114.50	7,219.02	7,143.29	75.74	95.319	
16,900.00	7,870.00	7,952.00	7,811.91	138.06	34.26	86.57	424.52	1,114.50	7,318.41	7,242.65	75.76	96.594	
17,000.00	7,870.00	7,952.00	7,811.91	139.74	34.26	86.57	424.52	1,114.50	7,417.81	7,342.02	75.80	97.866	
17,100.00	7,870.00	7,952.00	7,811.91	141.43	34.26	86.57	424.52	1,114.50	7,517.23	7,441.40	75.83	99.136	
17,200.00	7,870.00	7,952.00	7,811.91	143.12	34.26	86.57	424.52	1,114.50	7,616.66	7,540.80	75.86	100.405	
17,300.00	7,870.00	7,952.00	7,811.91	144.81	34.26	86.57	424.52	1,114.50	7,716.11	7,640.22	75.89	101.671	
17,400.00	7,870.00	7,952.00	7,811.91	146.50	34.26	86.57	424.52	1,114.50	7,815.58	7,739.65	75.93	102.934	
17,500.00	7,870.00	7,946.70	7,806.61	148.19	34.24	86.20	424.49	1,114.50	7,915.05	7,839.08	75.97	104.192	
17,600.00	7,870.00	7,946.21	7,806.11	149.89	34.24	86.16	424.48	1,114.50	8,014.54	7,938.53	76.00	105.451	
17,700.00	7,870.00	7,945.71	7,805.62	151.59	34.24	86.12	424.48	1,114.50	8,114.04	8,038.00	76.04	106.707	
17,800.00	7,870.00	7,945.22	7,805.13	153.29	34.24	86.09	424.48	1,114.50	8,213.55	8,137.47	76.08	107.962	
17,900.00	7,870.00	7,944.74	7,804.64	154.99	34.24	86.06	424.47	1,114.50	8,313.08	8,236.96	76.12	109.214	
18,000.00	7,870.00	7,944.25	7,804.16	156.69	34.24	86.02	424.47	1,114.51	8,412.61	8,336.45	76.16	110.464	
18,100.00	7,870.00	7,943.77	7,803.68	158.39	34.24	85.99	424.47	1,114.51	8,512.16	8,435.96	76.20	111.711	
18,200.00	7,870.00	7,943.30	7,803.21	160.09	34.23	85.95	424.46	1,114.51	8,611.72	8,535.48	76.24	112.956	
18,300.00	7,870.00	7,942.83	7,802.74	161.80	34.23	85.92	424.46	1,114.51	8,711.28	8,635.00	76.28	114.199	
18,400.00	7,870.00	7,942.36	7,802.27	163.51	34.23	85.89	424.46	1,114.51	8,810.86	8,734.54	76.33	115.439	
18,455.45	7,870.00	7,942.10	7,802.01	164.45	34.23	85.87	424.46	1,114.51	8,866.08	8,789.73	76.35	116.125	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,353.00	7,799.48	0.00	138.96	68.49	1,834.45	4,653.60	9,385.53				
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.49	1,834.45	4,653.60	9,301.07	9,212.39	88.68	104.884	
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.49	1,834.45	4,653.60	9,216.92	9,127.83	89.09	103.451	
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.49	1,834.45	4,653.60	9,133.09	9,043.55	89.54	101.999	
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.49	1,834.45	4,653.60	9,049.59	8,959.57	90.02	100.530	
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.49	1,834.45	4,653.60	8,966.42	8,875.90	90.53	99.047	
600.00	600.00	15,353.00	7,799.48	1.93	138.96	68.49	1,834.45	4,653.60	8,883.61	8,792.54	91.06	97.554	
700.00	700.00	15,353.00	7,799.48	2.29	138.96	68.49	1,834.45	4,653.60	8,801.15	8,709.52	91.63	96.053	
800.00	800.00	15,353.00	7,799.48	2.64	138.96	68.49	1,834.45	4,653.60	8,719.05	8,626.83	92.22	94.548	
900.00	900.00	15,353.00	7,799.48	3.00	138.96	68.49	1,834.45	4,653.60	8,637.34	8,544.51	92.83	93.043	
1,000.00	1,000.00	15,353.00	7,799.48	3.36	138.96	68.49	1,834.45	4,653.60	8,556.01	8,462.54	93.47	91.540	
1,100.00	1,100.00	15,353.00	7,799.48	3.72	138.96	68.49	1,834.45	4,653.60	8,475.08	8,380.96	94.12	90.041	
1,200.00	1,200.00	15,353.00	7,799.48	4.08	138.96	68.49	1,834.45	4,653.60	8,394.56	8,299.76	94.80	88.549	
1,300.00	1,300.00	15,353.00	7,799.48	4.44	138.96	68.49	1,834.45	4,653.60	8,314.47	8,218.97	95.50	87.065	
1,400.00	1,399.98	15,353.00	7,799.48	4.79	138.96	26.74	1,834.45	4,653.60	8,233.87	8,137.66	96.21	85.582	
1,500.00	1,499.84	15,353.00	7,799.48	5.15	138.96	28.06	1,834.45	4,653.60	8,151.87	8,054.94	96.93	84.102	
1,600.00	1,599.45	15,353.00	7,799.48	5.51	138.96	29.51	1,834.45	4,653.60	8,068.52	7,970.88	97.64	82.636	
1,700.00	1,698.70	15,353.00	7,799.48	5.87	138.96	31.12	1,834.45	4,653.60	7,983.89	7,885.55	98.34	81.186	
1,800.00	1,797.47	15,353.00	7,799.48	6.24	138.96	32.89	1,834.45	4,653.60	7,898.04	7,799.01	99.03	79.751	
1,900.00	1,895.62	15,353.00	7,799.48	6.63	138.96	34.86	1,834.45	4,653.60	7,811.04	7,711.32	99.72	78.331	
2,000.00	1,993.06	15,353.00	7,799.48	7.04	138.96	37.04	1,834.45	4,653.60	7,722.95	7,622.56	100.39	76.927	
2,100.00	2,089.64	15,353.00	7,799.48	7.48	138.96	39.48	1,834.45	4,653.60	7,633.85	7,532.79	101.06	75.538	
2,200.00	2,185.27	15,353.00	7,799.48	7.94	138.96	42.18	1,834.45	4,653.60	7,543.82	7,442.10	101.72	74.164	
2,300.00	2,279.82	15,353.00	7,799.48	8.45	138.96	45.19	1,834.45	4,653.60	7,452.92	7,350.55	102.37	72.806	
2,400.00	2,373.17	15,353.00	7,799.48	8.99	138.96	48.54	1,834.45	4,653.60	7,361.24	7,258.23	103.01	71.463	
2,500.00	2,465.21	15,353.00	7,799.48	9.58	138.96	52.26	1,834.45	4,653.60	7,268.86	7,165.22	103.64	70.135	
2,574.08	2,532.50	15,353.00	7,799.48	10.04	138.96	55.26	1,834.45	4,653.60	7,200.03	7,095.92	104.11	69.161	
2,600.00	2,555.89	15,353.00	7,799.48	10.21	138.96	55.26	1,834.45	4,653.60	7,175.90	7,071.63	104.27	68.821	
2,700.00	2,646.16	15,353.00	7,799.48	10.88	138.96	55.26	1,834.45	4,653.60	7,082.93	6,978.02	104.90	67.518	
2,800.00	2,736.44	15,353.00	7,799.48	11.57	138.96	55.26	1,834.45	4,653.60	6,990.14	6,884.58	105.56	66.218	
2,900.00	2,826.71	15,353.00	7,799.48	12.27	138.96	55.26	1,834.45	4,653.60	6,897.56	6,791.32	106.24	64.922	
3,000.00	2,916.98	15,353.00	7,799.48	13.00	138.96	55.26	1,834.45	4,653.60	6,805.19	6,698.24	106.95	63.630	
3,100.00	3,007.25	15,353.00	7,799.48	13.73	138.96	55.26	1,834.45	4,653.60	6,713.04	6,605.36	107.68	62.343	
3,200.00	3,097.52	15,353.00	7,799.48	14.48	138.96	55.26	1,834.45	4,653.60	6,621.11	6,512.68	108.43	61.061	
3,300.00	3,187.80	15,353.00	7,799.48	15.23	138.96	55.26	1,834.45	4,653.60	6,529.43	6,420.21	109.21	59.786	
3,400.00	3,278.07	15,353.00	7,799.48	15.99	138.96	55.26	1,834.45	4,653.60	6,437.99	6,327.97	110.02	58.518	
3,500.00	3,368.34	15,353.00	7,799.48	16.76	138.96	55.26	1,834.45	4,653.60	6,346.80	6,235.96	110.85	57.258	
3,600.00	3,458.61	15,353.00	7,799.48	17.54	138.96	55.26	1,834.45	4,653.60	6,255.89	6,144.19	111.70	56.006	
3,700.00	3,548.89	15,353.00	7,799.48	18.32	138.96	55.26	1,834.45	4,653.60	6,165.26	6,052.68	112.58	54.762	
3,800.00	3,639.16	15,353.00	7,799.48	19.10	138.96	55.26	1,834.45	4,653.60	6,074.92	5,961.43	113.49	53.527	
3,900.00	3,729.43	15,353.00	7,799.48	19.89	138.96	55.26	1,834.45	4,653.60	5,984.90	5,870.47	114.43	52.302	
4,000.00	3,819.70	15,353.00	7,799.48	20.69	138.96	55.26	1,834.45	4,653.60	5,895.19	5,779.79	115.39	51.088	
4,100.00	3,909.98	15,353.00	7,799.48	21.48	138.96	55.26	1,834.45	4,653.60	5,805.82	5,689.43	116.39	49.883	
4,200.00	4,000.25	15,353.00	7,799.48	22.28	138.96	55.26	1,834.45	4,653.60	5,716.80	5,599.38	117.41	48.690	
4,300.00	4,090.52	15,353.00	7,799.48	23.08	138.96	55.26	1,834.45	4,653.60	5,628.14	5,509.68	118.47	47.509	
4,400.00	4,180.79	15,353.00	7,799.48	23.88	138.96	55.26	1,834.45	4,653.60	5,539.88	5,420.33	119.55	46.339	
4,500.00	4,271.06	15,353.00	7,799.48	24.69	138.96	55.26	1,834.45	4,653.60	5,452.02	5,331.35	120.67	45.182	
4,600.00	4,361.34	15,353.00	7,799.48	25.49	138.96	55.26	1,834.45	4,653.60	5,364.59	5,242.77	121.82	44.037	
4,700.00	4,451.61	15,353.00	7,799.48	26.30	138.96	55.26	1,834.45	4,653.60	5,277.60	5,154.60	123.00	42.906	
4,800.00	4,541.88	15,353.00	7,799.48	27.11	138.96	55.26	1,834.45	4,653.60	5,191.08	5,066.86	124.22	41.789	
4,900.00	4,632.15	15,353.00	7,799.48	27.92	138.96	55.26	1,834.45	4,653.60	5,105.05	4,979.58	125.48	40.686	
5,000.00	4,722.43	15,353.00	7,799.48	28.74	138.96	55.26	1,834.45	4,653.60	5,019.54	4,892.78	126.77	39.597	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	15,353.00	7,799.48	29.55	138.96	55.26	1,834.45	4,653.60	4,934.58	4,806.49	128.09	38.524	
5,200.00	4,902.97	15,353.00	7,799.48	30.37	138.96	55.26	1,834.45	4,653.60	4,850.19	4,720.73	129.46	37.466	
5,300.00	4,993.24	15,353.00	7,799.48	31.18	138.96	55.26	1,834.45	4,653.60	4,766.40	4,635.55	130.86	36.424	
5,400.00	5,083.51	15,353.00	7,799.48	32.00	138.96	55.26	1,834.45	4,653.60	4,683.25	4,550.95	132.30	35.398	
5,500.00	5,173.79	15,353.00	7,799.48	32.82	138.96	55.26	1,834.45	4,653.60	4,600.78	4,466.99	133.78	34.390	
5,600.00	5,264.06	15,353.00	7,799.48	33.63	138.96	55.26	1,834.45	4,653.60	4,519.00	4,383.70	135.30	33.399	
5,700.00	5,354.33	15,353.00	7,799.48	34.45	138.96	55.26	1,834.45	4,653.60	4,437.98	4,301.11	136.87	32.425	
5,800.00	5,444.60	15,353.00	7,799.48	35.27	138.96	55.26	1,834.45	4,653.60	4,357.74	4,219.27	138.47	31.470	
5,900.00	5,534.88	15,353.00	7,799.48	36.09	138.96	55.26	1,834.45	4,653.60	4,278.34	4,138.22	140.12	30.534	
6,000.00	5,625.15	15,353.00	7,799.48	36.91	138.96	55.26	1,834.45	4,653.60	4,199.81	4,058.01	141.80	29.617	
6,100.00	5,715.42	15,353.00	7,799.48	37.74	138.96	55.26	1,834.45	4,653.60	4,122.22	3,978.69	143.53	28.720	
6,200.00	5,805.69	15,353.00	7,799.48	38.56	138.96	55.26	1,834.45	4,653.60	4,045.61	3,900.31	145.30	27.843	
6,300.00	5,895.96	15,353.00	7,799.48	39.38	138.96	55.26	1,834.45	4,653.60	3,970.04	3,822.93	147.11	26.988	
6,400.00	5,986.24	15,353.00	7,799.48	40.20	138.96	55.26	1,834.45	4,653.60	3,895.57	3,746.62	148.95	26.153	
6,500.00	6,076.51	15,353.00	7,799.48	41.03	138.96	55.26	1,834.45	4,653.60	3,822.27	3,671.43	150.84	25.340	
6,600.00	6,166.78	15,353.00	7,799.48	41.85	138.96	55.26	1,834.45	4,653.60	3,750.20	3,597.44	152.76	24.550	
6,700.00	6,257.05	15,353.00	7,799.48	42.67	138.96	55.26	1,834.45	4,653.60	3,679.44	3,524.73	154.71	23.783	
6,800.00	6,347.33	15,353.00	7,799.48	43.50	138.96	55.26	1,834.45	4,653.60	3,610.06	3,453.37	156.69	23.040	
6,900.00	6,437.60	15,353.00	7,799.48	44.32	138.96	55.26	1,834.45	4,653.60	3,542.14	3,383.45	158.70	22.320	
7,000.00	6,527.87	15,353.00	7,799.48	45.15	138.96	55.26	1,834.45	4,653.60	3,475.78	3,315.05	160.72	21.626	
7,100.00	6,618.14	15,353.00	7,799.48	45.98	138.96	55.26	1,834.45	4,653.60	3,411.05	3,248.29	162.77	20.956	
7,200.00	6,708.41	15,353.00	7,799.48	46.80	138.96	55.26	1,834.45	4,653.60	3,348.07	3,183.24	164.82	20.313	
7,300.00	6,798.69	15,353.00	7,799.48	47.63	138.96	55.26	1,834.45	4,653.60	3,286.92	3,120.03	166.88	19.696	
7,400.00	6,888.96	15,353.00	7,799.48	48.45	138.96	55.26	1,834.45	4,653.60	3,227.70	3,058.77	168.93	19.106	
7,500.00	6,979.23	15,353.00	7,799.48	49.28	138.96	55.26	1,834.45	4,653.60	3,170.54	2,999.57	170.97	18.544	
7,600.00	7,069.50	15,353.00	7,799.48	50.11	138.96	55.26	1,834.45	4,653.60	3,115.54	2,942.56	172.98	18.010	
7,692.09	7,152.63	15,329.59	7,799.69	50.87	138.55	54.79	1,857.85	4,653.21	3,066.82	2,892.58	174.24	17.601	
7,700.00	7,159.79	15,327.13	7,799.71	50.93	138.51	53.05	1,860.31	4,653.17	3,062.70	2,888.37	174.33	17.568	
7,750.00	7,205.70	15,313.97	7,799.83	51.32	138.28	40.70	1,873.47	4,652.95	3,036.67	2,861.73	174.93	17.359	
7,800.00	7,252.52	15,305.06	7,799.91	51.66	138.12	25.74	1,882.38	4,652.81	3,010.77	2,835.21	175.55	17.150	
7,850.00	7,299.89	15,300.47	7,799.95	51.96	138.04	8.43	1,886.96	4,652.73	2,985.23	2,809.05	176.18	16.944	
7,900.00	7,347.44	15,300.24	7,799.96	52.20	138.04	-9.81	1,887.20	4,652.73	2,960.29	2,783.49	176.81	16.743	
7,950.00	7,394.83	15,304.36	7,799.92	52.39	138.11	-26.81	1,883.08	4,652.79	2,936.16	2,758.73	177.43	16.548	
8,000.00	7,441.68	15,312.81	7,799.84	52.53	138.26	-41.10	1,874.63	4,652.93	2,913.02	2,734.97	178.05	16.361	
8,050.00	7,487.65	15,325.52	7,799.73	52.62	138.48	-52.44	1,861.92	4,653.14	2,891.03	2,712.37	178.66	16.182	
8,100.00	7,532.37	15,342.39	7,799.57	52.67	138.77	-61.27	1,845.06	4,653.42	2,870.34	2,691.07	179.26	16.012	
8,150.00	7,575.52	15,353.00	7,799.48	52.67	138.96	-68.33	1,834.45	4,653.60	2,851.08	2,671.48	179.60	15.875	
8,200.00	7,616.76	15,353.00	7,799.48	52.63	138.96	-74.14	1,834.45	4,653.60	2,833.49	2,653.95	179.54	15.782	
8,250.00	7,655.77	15,353.00	7,799.48	52.55	138.96	-78.81	1,834.45	4,653.60	2,817.78	2,638.40	179.38	15.709	
8,300.00	7,692.27	15,353.00	7,799.48	52.44	138.96	-82.58	1,834.45	4,653.60	2,804.08	2,624.99	179.09	15.657	
8,350.00	7,725.97	15,353.00	7,799.48	52.29	138.96	-85.61	1,834.45	4,653.60	2,792.54	2,613.83	178.71	15.626	
8,400.00	7,756.62	15,353.00	7,799.48	52.12	138.96	-88.02	1,834.45	4,653.60	2,783.26	2,605.05	178.22	15.617	SF
8,450.00	7,783.98	15,353.00	7,799.48	51.92	138.96	-89.88	1,834.45	4,653.60	2,776.35	2,598.71	177.64	15.629	
8,500.00	7,807.85	15,353.00	7,799.48	51.70	138.96	-91.25	1,834.45	4,653.60	2,771.87	2,594.89	176.97	15.663	
8,550.00	7,828.05	15,353.00	7,799.48	51.45	138.96	-92.18	1,834.45	4,653.60	2,769.87	2,593.63	176.24	15.716	ES
8,565.07	7,833.39	15,353.00	7,799.48	51.37	138.96	-92.38	1,834.45	4,653.60	2,769.75	2,593.74	176.01	15.736	CC
8,600.00	7,844.41	15,353.00	7,799.48	51.20	138.96	-92.70	1,834.45	4,653.60	2,770.36	2,594.91	175.45	15.790	
8,650.00	7,856.82	15,353.00	7,799.48	50.93	138.96	-92.83	1,834.45	4,653.60	2,773.35	2,598.74	174.61	15.883	
8,700.00	7,865.18	15,353.00	7,799.48	50.65	138.96	-92.58	1,834.45	4,653.60	2,778.81	2,605.07	173.74	15.994	
8,750.00	7,869.43	15,353.00	7,799.48	50.36	138.96	-91.97	1,834.45	4,653.60	2,786.67	2,613.82	172.84	16.122	
8,776.25	7,870.00	15,353.00	7,799.48	50.21	138.96	-91.50	1,834.45	4,653.60	2,791.73	2,619.36	172.37	16.196	
8,800.00	7,870.00	15,353.00	7,799.48	50.08	138.96	-91.50	1,834.45	4,653.60	2,796.70	2,624.76	171.94	16.266	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	15,353.00	7,799.48	49.53	138.96	-91.50	1,834.45	4,653.60	2,819.70	2,649.54	170.17	16.570	
9,000.00	7,870.00	15,353.00	7,799.48	49.01	138.96	-91.50	1,834.45	4,653.60	2,846.04	2,677.57	168.47	16.894	
9,100.00	7,870.00	15,353.00	7,799.48	48.52	138.96	-91.50	1,834.45	4,653.60	2,875.61	2,708.76	166.85	17.235	
9,200.00	7,870.00	15,353.00	7,799.48	48.06	138.96	-91.50	1,834.45	4,653.60	2,908.32	2,742.99	165.33	17.591	
9,300.00	7,870.00	15,353.00	7,799.48	47.63	138.96	-91.50	1,834.45	4,653.60	2,944.07	2,780.16	163.90	17.962	
9,400.00	7,870.00	15,353.00	7,799.48	47.22	138.96	-91.50	1,834.45	4,653.60	2,982.74	2,820.17	162.57	18.347	
9,500.00	7,870.00	15,353.00	7,799.48	46.83	138.96	-91.50	1,834.45	4,653.60	3,024.23	2,862.89	161.33	18.745	
9,600.00	7,870.00	15,353.00	7,799.48	46.48	138.96	-91.50	1,834.45	4,653.60	3,068.41	2,908.24	160.17	19.157	
9,700.00	7,870.00	15,353.00	7,799.48	46.14	138.96	-91.50	1,834.45	4,653.60	3,115.18	2,956.10	159.08	19.582	
9,800.00	7,870.00	15,353.00	7,799.48	45.83	138.96	-91.50	1,834.45	4,653.60	3,164.42	3,006.36	158.06	20.021	
9,900.00	7,870.00	15,353.00	7,799.48	45.54	138.96	-91.50	1,834.45	4,653.60	3,216.02	3,058.93	157.08	20.473	
10,000.00	7,870.00	15,353.00	7,799.48	45.27	138.96	-91.50	1,834.45	4,653.60	3,269.86	3,113.70	156.15	20.940	
10,100.00	7,870.00	15,353.00	7,799.48	45.03	138.96	-91.50	1,834.45	4,653.60	3,325.83	3,170.57	155.26	21.421	
10,200.00	7,870.00	15,353.00	7,799.48	44.82	138.96	-91.50	1,834.45	4,653.60	3,383.84	3,229.45	154.39	21.917	
10,300.00	7,870.00	15,353.00	7,799.48	44.66	138.96	-91.50	1,834.45	4,653.60	3,443.77	3,290.22	153.55	22.427	
10,400.00	7,870.00	15,353.00	7,799.48	44.56	138.96	-91.50	1,834.45	4,653.60	3,505.54	3,352.80	152.73	22.952	
10,500.00	7,870.00	15,353.00	7,799.48	44.58	138.96	-91.50	1,834.45	4,653.60	3,569.03	3,417.10	151.93	23.492	
10,600.00	7,870.00	15,353.00	7,799.48	44.82	138.96	-91.50	1,834.45	4,653.60	3,634.17	3,483.03	151.14	24.045	
10,700.00	7,870.00	15,353.00	7,799.48	45.36	138.96	-91.50	1,834.45	4,653.60	3,700.86	3,550.50	150.36	24.613	
10,800.00	7,870.00	15,353.00	7,799.48	46.15	138.96	-91.50	1,834.45	4,653.60	3,769.03	3,619.43	149.60	25.194	
10,900.00	7,870.00	15,353.00	7,799.48	47.09	138.96	-91.50	1,834.45	4,653.60	3,838.59	3,689.75	148.85	25.789	
11,000.00	7,870.00	15,353.00	7,799.48	48.13	138.96	-91.50	1,834.45	4,653.60	3,909.48	3,761.37	148.10	26.397	
11,100.00	7,870.00	15,353.00	7,799.48	49.22	138.96	-91.50	1,834.45	4,653.60	3,981.61	3,834.24	147.37	27.018	
11,200.00	7,870.00	15,353.00	7,799.48	50.37	138.96	-91.50	1,834.45	4,653.60	4,054.92	3,908.27	146.65	27.650	
11,300.00	7,870.00	15,353.00	7,799.48	51.55	138.96	-91.50	1,834.45	4,653.60	4,129.36	3,983.42	145.94	28.295	
11,400.00	7,870.00	15,353.00	7,799.48	52.76	138.96	-91.50	1,834.45	4,653.60	4,204.86	4,059.62	145.24	28.951	
11,500.00	7,870.00	15,353.00	7,799.48	54.00	138.96	-91.50	1,834.45	4,653.60	4,281.36	4,136.81	144.55	29.618	
11,600.00	7,870.00	15,353.00	7,799.48	55.27	138.96	-91.50	1,834.45	4,653.60	4,358.81	4,214.94	143.87	30.296	
11,700.00	7,870.00	15,353.00	7,799.48	56.56	138.96	-91.50	1,834.45	4,653.60	4,437.17	4,293.96	143.21	30.984	
11,800.00	7,870.00	15,353.00	7,799.48	57.88	138.96	-91.50	1,834.45	4,653.60	4,516.37	4,373.82	142.55	31.682	
11,900.00	7,870.00	15,353.00	7,799.48	59.21	138.96	-91.50	1,834.45	4,653.60	4,596.39	4,454.48	141.91	32.389	
12,000.00	7,870.00	15,353.00	7,799.48	60.57	138.96	-91.50	1,834.45	4,653.60	4,677.18	4,535.90	141.28	33.105	
12,100.00	7,870.00	15,353.00	7,799.48	61.94	138.96	-91.50	1,834.45	4,653.60	4,758.70	4,618.04	140.66	33.830	
12,200.00	7,870.00	15,353.00	7,799.48	63.33	138.96	-91.50	1,834.45	4,653.60	4,840.91	4,700.86	140.06	34.563	
12,300.00	7,870.00	15,353.00	7,799.48	64.74	138.96	-91.50	1,834.45	4,653.60	4,923.79	4,784.32	139.47	35.305	
12,400.00	7,870.00	15,353.00	7,799.48	66.16	138.96	-91.50	1,834.45	4,653.60	5,007.28	4,868.40	138.88	36.053	
12,500.00	7,870.00	15,353.00	7,799.48	67.59	138.96	-91.50	1,834.45	4,653.60	5,091.37	4,953.06	138.32	36.810	
12,600.00	7,870.00	15,353.00	7,799.48	69.04	138.96	-91.50	1,834.45	4,653.60	5,176.03	5,038.27	137.76	37.573	
12,700.00	7,870.00	15,353.00	7,799.48	70.51	138.96	-91.50	1,834.45	4,653.60	5,261.22	5,124.01	137.22	38.342	
12,800.00	7,870.00	15,353.00	7,799.48	71.98	138.96	-91.50	1,834.45	4,653.60	5,346.93	5,210.25	136.69	39.118	
12,900.00	7,870.00	15,353.00	7,799.48	73.47	138.96	-91.50	1,834.45	4,653.60	5,433.13	5,296.96	136.17	39.900	
13,000.00	7,870.00	15,353.00	7,799.48	74.96	138.96	-91.50	1,834.45	4,653.60	5,519.79	5,384.13	135.66	40.688	
13,100.00	7,870.00	15,353.00	7,799.48	76.47	138.96	-91.50	1,834.45	4,653.60	5,606.90	5,471.73	135.16	41.482	
13,200.00	7,870.00	15,353.00	7,799.48	77.99	138.96	-91.50	1,834.45	4,653.60	5,694.43	5,559.75	134.68	42.281	
13,300.00	7,870.00	15,353.00	7,799.48	79.51	138.96	-91.50	1,834.45	4,653.60	5,782.36	5,648.15	134.21	43.085	
13,400.00	7,870.00	15,353.00	7,799.48	81.05	138.96	-91.50	1,834.45	4,653.60	5,870.68	5,736.93	133.75	43.893	
13,500.00	7,870.00	15,353.00	7,799.48	82.59	138.96	-91.50	1,834.45	4,653.60	5,959.37	5,826.07	133.30	44.707	
13,600.00	7,870.00	15,353.00	7,799.48	84.14	138.96	-91.50	1,834.45	4,653.60	6,048.41	5,915.55	132.86	45.524	
13,700.00	7,870.00	15,353.00	7,799.48	85.70	138.96	-91.50	1,834.45	4,653.60	6,137.79	6,005.36	132.43	46.346	
13,800.00	7,870.00	15,353.00	7,799.48	87.26	138.96	-91.50	1,834.45	4,653.60	6,227.50	6,095.48	132.02	47.172	
13,900.00	7,870.00	15,353.00	7,799.48	88.83	138.96	-91.50	1,834.45	4,653.60	6,317.51	6,185.90	131.61	48.001	
14,000.00	7,870.00	15,353.00	7,799.48	90.41	138.96	-91.50	1,834.45	4,653.60	6,407.82	6,276.60	131.21	48.835	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	15,353.00	7,799.48	92.00	138.96	-91.50	1,834.45	4,653.60	6,498.41	6,367.58	130.83	49.671	
14,200.00	7,870.00	15,353.00	7,799.48	93.59	138.96	-91.50	1,834.45	4,653.60	6,589.27	6,458.82	130.45	50.511	
14,300.00	7,870.00	15,353.00	7,799.48	95.18	138.96	-91.50	1,834.45	4,653.60	6,680.40	6,550.32	130.08	51.354	
14,400.00	7,870.00	15,353.00	7,799.48	96.79	138.96	-91.50	1,834.45	4,653.60	6,771.78	6,642.05	129.73	52.200	
14,500.00	7,870.00	15,353.00	7,799.48	98.39	138.96	-91.50	1,834.45	4,653.60	6,863.39	6,734.01	129.38	53.049	
14,600.00	7,870.00	15,353.00	7,799.48	100.00	138.96	-91.50	1,834.45	4,653.60	6,955.24	6,826.20	129.04	53.900	
14,700.00	7,870.00	15,353.00	7,799.48	101.62	138.96	-91.50	1,834.45	4,653.60	7,047.31	6,918.60	128.71	54.754	
14,800.00	7,870.00	15,353.00	7,799.48	103.24	138.96	-91.50	1,834.45	4,653.60	7,139.59	7,011.21	128.39	55.611	
14,900.00	7,870.00	15,353.00	7,799.48	104.87	138.96	-91.50	1,834.45	4,653.60	7,232.08	7,104.01	128.07	56.469	
15,000.00	7,870.00	15,353.00	7,799.48	106.50	138.96	-91.50	1,834.45	4,653.60	7,324.76	7,197.00	127.77	57.330	
15,100.00	7,870.00	15,353.00	7,799.48	108.13	138.96	-91.50	1,834.45	4,653.60	7,417.64	7,290.17	127.47	58.193	
15,200.00	7,870.00	15,353.00	7,799.48	109.77	138.96	-91.50	1,834.45	4,653.60	7,510.70	7,383.52	127.18	59.057	
15,300.00	7,870.00	15,353.00	7,799.48	111.41	138.96	-91.50	1,834.45	4,653.60	7,603.93	7,477.04	126.89	59.924	
15,400.00	7,870.00	15,353.00	7,799.48	113.05	138.96	-91.50	1,834.45	4,653.60	7,697.34	7,570.72	126.62	60.792	
15,500.00	7,870.00	15,353.00	7,799.48	114.70	138.96	-91.50	1,834.45	4,653.60	7,790.90	7,664.55	126.35	61.661	
15,600.00	7,870.00	15,353.00	7,799.48	116.35	138.96	-91.50	1,834.45	4,653.60	7,884.63	7,758.54	126.09	62.533	
15,700.00	7,870.00	15,353.00	7,799.48	118.00	138.96	-91.50	1,834.45	4,653.60	7,978.51	7,852.68	125.83	63.405	
15,800.00	7,870.00	15,353.00	7,799.48	119.66	138.96	-91.50	1,834.45	4,653.60	8,072.53	7,946.95	125.59	64.279	
15,900.00	7,870.00	15,353.00	7,799.48	121.32	138.96	-91.50	1,834.45	4,653.60	8,166.70	8,041.36	125.34	65.154	
16,000.00	7,870.00	15,353.00	7,799.48	122.98	138.96	-91.50	1,834.45	4,653.60	8,261.01	8,135.90	125.11	66.030	
16,100.00	7,870.00	15,353.00	7,799.48	124.65	138.96	-91.50	1,834.45	4,653.60	8,355.44	8,230.56	124.88	66.908	
16,200.00	7,870.00	15,353.00	7,799.48	126.32	138.96	-91.50	1,834.45	4,653.60	8,450.01	8,325.35	124.66	67.786	
16,300.00	7,870.00	15,353.00	7,799.48	127.99	138.96	-91.50	1,834.45	4,653.60	8,544.70	8,420.26	124.44	68.665	
16,400.00	7,870.00	15,353.00	7,799.48	129.66	138.96	-91.50	1,834.45	4,653.60	8,639.50	8,515.28	124.23	69.545	
16,500.00	7,870.00	15,353.00	7,799.48	131.33	138.96	-91.50	1,834.45	4,653.60	8,734.43	8,610.41	124.02	70.426	
16,600.00	7,870.00	15,353.00	7,799.48	133.01	138.96	-91.50	1,834.45	4,653.60	8,829.46	8,705.64	123.82	71.308	
16,700.00	7,870.00	15,353.00	7,799.48	134.69	138.96	-91.50	1,834.45	4,653.60	8,924.61	8,800.98	123.63	72.190	
16,800.00	7,870.00	15,353.00	7,799.48	136.37	138.96	-91.50	1,834.45	4,653.60	9,019.86	8,896.42	123.44	73.073	
16,900.00	7,870.00	15,353.00	7,799.48	138.06	138.96	-91.50	1,834.45	4,653.60	9,115.21	8,991.96	123.25	73.956	
17,000.00	7,870.00	15,353.00	7,799.48	139.74	138.96	-91.50	1,834.45	4,653.60	9,210.66	9,087.59	123.07	74.840	
17,100.00	7,870.00	15,353.00	7,799.48	141.43	138.96	-91.50	1,834.45	4,653.60	9,306.21	9,183.31	122.90	75.724	
17,200.00	7,870.00	15,353.00	7,799.48	143.12	138.96	-91.50	1,834.45	4,653.60	9,401.84	9,279.12	122.73	76.608	
17,300.00	7,870.00	15,353.00	7,799.48	144.81	138.96	-91.50	1,834.45	4,653.60	9,497.57	9,375.01	122.56	77.493	
17,400.00	7,870.00	15,353.00	7,799.48	146.50	138.96	-91.50	1,834.45	4,653.60	9,593.39	9,470.99	122.40	78.378	
17,500.00	7,870.00	15,353.00	7,799.48	148.19	138.96	-91.50	1,834.45	4,653.60	9,689.29	9,567.05	122.24	79.264	
17,600.00	7,870.00	15,353.00	7,799.48	149.89	138.96	-91.50	1,834.45	4,653.60	9,785.27	9,663.18	122.09	80.149	
17,700.00	7,870.00	15,353.00	7,799.48	151.59	138.96	-91.50	1,834.45	4,653.60	9,881.33	9,759.39	121.94	81.035	
17,800.00	7,870.00	15,353.00	7,799.48	153.29	138.96	-91.50	1,834.45	4,653.60	9,977.47	9,855.67	121.80	81.920	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,243.00	7,668.35	0.00	138.66	69.72	1,843.87	4,989.29	9,449.58				
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.72	1,843.87	4,989.29	9,367.09	9,275.63	91.46	102.412	
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.72	1,843.87	4,989.29	9,284.95	9,193.04	91.91	101.020	
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.72	1,843.87	4,989.29	9,203.17	9,110.77	92.39	99.608	
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.72	1,843.87	4,989.29	9,121.74	9,028.84	92.91	98.180	
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.72	1,843.87	4,989.29	9,040.69	8,947.24	93.46	96.737	
600.00	600.00	15,243.00	7,668.35	1.93	138.66	69.72	1,843.87	4,989.29	8,960.03	8,865.99	94.03	95.285	
700.00	700.00	15,243.00	7,668.35	2.29	138.66	69.72	1,843.87	4,989.29	8,879.75	8,785.11	94.64	93.826	
800.00	800.00	15,243.00	7,668.35	2.64	138.66	69.72	1,843.87	4,989.29	8,799.88	8,704.61	95.27	92.365	
900.00	900.00	15,243.00	7,668.35	3.00	138.66	69.72	1,843.87	4,989.29	8,720.43	8,624.50	95.93	90.905	
1,000.00	1,000.00	15,243.00	7,668.35	3.36	138.66	69.72	1,843.87	4,989.29	8,641.40	8,544.79	96.61	89.448	
1,100.00	1,100.00	15,243.00	7,668.35	3.72	138.66	69.72	1,843.87	4,989.29	8,562.81	8,465.50	97.31	87.997	
1,200.00	1,200.00	15,243.00	7,668.35	4.08	138.66	69.72	1,843.87	4,989.29	8,484.67	8,386.64	98.03	86.554	
1,300.00	1,300.00	15,243.00	7,668.35	4.44	138.66	69.72	1,843.87	4,989.29	8,407.00	8,308.23	98.77	85.121	
1,400.00	1,399.98	15,243.00	7,668.35	4.79	138.66	27.93	1,843.87	4,989.29	8,328.82	8,229.30	99.52	83.690	
1,500.00	1,499.84	15,243.00	7,668.35	5.15	138.66	29.18	1,843.87	4,989.29	8,249.20	8,148.92	100.28	82.263	
1,600.00	1,599.45	15,243.00	7,668.35	5.51	138.66	30.56	1,843.87	4,989.29	8,168.19	8,067.16	101.03	80.850	
1,700.00	1,698.70	15,243.00	7,668.35	5.87	138.66	32.07	1,843.87	4,989.29	8,085.86	7,984.09	101.77	79.451	
1,800.00	1,797.47	15,243.00	7,668.35	6.24	138.66	33.72	1,843.87	4,989.29	8,002.26	7,899.76	102.51	78.066	
1,900.00	1,895.62	15,243.00	7,668.35	6.63	138.66	35.54	1,843.87	4,989.29	7,917.47	7,814.23	103.23	76.696	
2,000.00	1,993.06	15,243.00	7,668.35	7.04	138.66	37.54	1,843.87	4,989.29	7,831.53	7,727.58	103.95	75.341	
2,100.00	2,089.64	15,243.00	7,668.35	7.48	138.66	39.75	1,843.87	4,989.29	7,744.53	7,639.87	104.66	73.999	
2,200.00	2,185.27	15,243.00	7,668.35	7.94	138.66	42.18	1,843.87	4,989.29	7,656.53	7,551.17	105.36	72.672	
2,300.00	2,279.82	15,243.00	7,668.35	8.45	138.66	44.85	1,843.87	4,989.29	7,567.61	7,461.56	106.05	71.359	
2,400.00	2,373.17	15,243.00	7,668.35	8.99	138.66	47.80	1,843.87	4,989.29	7,477.84	7,371.11	106.73	70.060	
2,500.00	2,465.21	15,243.00	7,668.35	9.58	138.66	51.03	1,843.87	4,989.29	7,387.31	7,279.90	107.41	68.774	
2,574.08	2,532.50	15,243.00	7,668.35	10.04	138.66	53.63	1,843.87	4,989.29	7,319.80	7,211.89	107.91	67.830	
2,600.00	2,555.89	15,243.00	7,668.35	10.21	138.66	53.63	1,843.87	4,989.29	7,296.13	7,188.04	108.09	67.501	
2,700.00	2,646.16	15,243.00	7,668.35	10.88	138.66	53.63	1,843.87	4,989.29	7,204.94	7,096.17	108.77	66.238	
2,800.00	2,736.44	15,243.00	7,668.35	11.57	138.66	53.63	1,843.87	4,989.29	7,113.99	7,004.51	109.48	64.979	
2,900.00	2,826.71	15,243.00	7,668.35	12.27	138.66	53.63	1,843.87	4,989.29	7,023.29	6,913.07	110.21	63.725	
3,000.00	2,916.98	15,243.00	7,668.35	13.00	138.66	53.63	1,843.87	4,989.29	6,932.84	6,821.87	110.97	62.475	
3,100.00	3,007.25	15,243.00	7,668.35	13.73	138.66	53.63	1,843.87	4,989.29	6,842.65	6,730.90	111.75	61.232	
3,200.00	3,097.52	15,243.00	7,668.35	14.48	138.66	53.63	1,843.87	4,989.29	6,752.74	6,640.19	112.56	59.995	
3,300.00	3,187.80	15,243.00	7,668.35	15.23	138.66	53.63	1,843.87	4,989.29	6,663.12	6,549.74	113.39	58.765	
3,400.00	3,278.07	15,243.00	7,668.35	15.99	138.66	53.63	1,843.87	4,989.29	6,573.80	6,459.56	114.24	57.544	
3,500.00	3,368.34	15,243.00	7,668.35	16.76	138.66	53.63	1,843.87	4,989.29	6,484.79	6,369.67	115.12	56.330	
3,600.00	3,458.61	15,243.00	7,668.35	17.54	138.66	53.63	1,843.87	4,989.29	6,396.11	6,280.08	116.03	55.126	
3,700.00	3,548.89	15,243.00	7,668.35	18.32	138.66	53.63	1,843.87	4,989.29	6,307.76	6,190.80	116.96	53.931	
3,800.00	3,639.16	15,243.00	7,668.35	19.10	138.66	53.63	1,843.87	4,989.29	6,219.77	6,101.85	117.92	52.746	
3,900.00	3,729.43	15,243.00	7,668.35	19.89	138.66	53.63	1,843.87	4,989.29	6,132.14	6,013.24	118.91	51.572	
4,000.00	3,819.70	15,243.00	7,668.35	20.69	138.66	53.63	1,843.87	4,989.29	6,044.90	5,924.98	119.92	50.408	
4,100.00	3,909.98	15,243.00	7,668.35	21.48	138.66	53.63	1,843.87	4,989.29	5,958.06	5,837.10	120.96	49.256	
4,200.00	4,000.25	15,243.00	7,668.35	22.28	138.66	53.63	1,843.87	4,989.29	5,871.64	5,749.61	122.03	48.117	
4,300.00	4,090.52	15,243.00	7,668.35	23.08	138.66	53.63	1,843.87	4,989.29	5,785.66	5,662.53	123.13	46.989	
4,400.00	4,180.79	15,243.00	7,668.35	23.88	138.66	53.63	1,843.87	4,989.29	5,700.13	5,575.87	124.26	45.874	
4,500.00	4,271.06	15,243.00	7,668.35	24.69	138.66	53.63	1,843.87	4,989.29	5,615.08	5,489.67	125.41	44.773	
4,600.00	4,361.34	15,243.00	7,668.35	25.49	138.66	53.63	1,843.87	4,989.29	5,530.53	5,403.93	126.60	43.685	
4,700.00	4,451.61	15,243.00	7,668.35	26.30	138.66	53.63	1,843.87	4,989.29	5,446.51	5,318.69	127.82	42.611	
4,800.00	4,541.88	15,243.00	7,668.35	27.11	138.66	53.63	1,843.87	4,989.29	5,363.03	5,233.96	129.07	41.552	
4,900.00	4,632.15	15,243.00	7,668.35	27.92	138.66	53.63	1,843.87	4,989.29	5,280.13	5,149.78	130.35	40.507	
5,000.00	4,722.43	15,243.00	7,668.35	28.74	138.66	53.63	1,843.87	4,989.29	5,197.83	5,066.17	131.66	39.478	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	15,243.00	7,668.35	29.55	138.66	53.63	1,843.87	4,989.29	5,116.16	4,983.15	133.01	38.465	
5,200.00	4,902.97	15,243.00	7,668.35	30.37	138.66	53.63	1,843.87	4,989.29	5,035.15	4,900.77	134.39	37.467	
5,300.00	4,993.24	15,243.00	7,668.35	31.18	138.66	53.63	1,843.87	4,989.29	4,954.84	4,819.04	135.80	36.486	
5,400.00	5,083.51	15,243.00	7,668.35	32.00	138.66	53.63	1,843.87	4,989.29	4,875.25	4,738.01	137.24	35.522	
5,500.00	5,173.79	15,243.00	7,668.35	32.82	138.66	53.63	1,843.87	4,989.29	4,796.43	4,657.71	138.72	34.576	
5,600.00	5,264.06	15,243.00	7,668.35	33.63	138.66	53.63	1,843.87	4,989.29	4,718.41	4,578.18	140.23	33.647	
5,700.00	5,354.33	15,243.00	7,668.35	34.45	138.66	53.63	1,843.87	4,989.29	4,641.24	4,499.46	141.78	32.736	
5,800.00	5,444.60	15,243.00	7,668.35	35.27	138.66	53.63	1,843.87	4,989.29	4,564.95	4,421.60	143.35	31.844	
5,900.00	5,534.88	15,243.00	7,668.35	36.09	138.66	53.63	1,843.87	4,989.29	4,489.59	4,344.63	144.96	30.971	
6,000.00	5,625.15	15,243.00	7,668.35	36.91	138.66	53.63	1,843.87	4,989.29	4,415.21	4,268.61	146.60	30.118	
6,100.00	5,715.42	15,243.00	7,668.35	37.74	138.66	53.63	1,843.87	4,989.29	4,341.86	4,193.59	148.27	29.284	
6,200.00	5,805.69	15,243.00	7,668.35	38.56	138.66	53.63	1,843.87	4,989.29	4,269.59	4,119.63	149.96	28.471	
6,300.00	5,895.96	15,243.00	7,668.35	39.38	138.66	53.63	1,843.87	4,989.29	4,198.46	4,046.77	151.69	27.678	
6,400.00	5,986.24	15,243.00	7,668.35	40.20	138.66	53.63	1,843.87	4,989.29	4,128.52	3,975.09	153.44	26.907	
6,500.00	6,076.51	15,243.00	7,668.35	41.03	138.66	53.63	1,843.87	4,989.29	4,059.85	3,904.64	155.21	26.157	
6,600.00	6,166.78	15,243.00	7,668.35	41.85	138.66	53.63	1,843.87	4,989.29	3,992.50	3,835.49	157.00	25.429	
6,700.00	6,257.05	15,243.00	7,668.35	42.67	138.66	53.63	1,843.87	4,989.29	3,926.54	3,767.72	158.81	24.724	
6,800.00	6,347.33	15,243.00	7,668.35	43.50	138.66	53.63	1,843.87	4,989.29	3,862.04	3,701.40	160.64	24.042	
6,900.00	6,437.60	15,243.00	7,668.35	44.32	138.66	53.63	1,843.87	4,989.29	3,799.08	3,636.61	162.47	23.383	
7,000.00	6,527.87	15,243.00	7,668.35	45.15	138.66	53.63	1,843.87	4,989.29	3,737.74	3,573.43	164.31	22.748	
7,100.00	6,618.14	15,243.00	7,668.35	45.98	138.66	53.63	1,843.87	4,989.29	3,678.09	3,511.95	166.14	22.138	
7,200.00	6,708.41	15,243.00	7,668.35	46.80	138.66	53.63	1,843.87	4,989.29	3,620.22	3,452.25	167.97	21.553	
7,300.00	6,798.69	15,243.00	7,668.35	47.63	138.66	53.63	1,843.87	4,989.29	3,564.22	3,394.44	169.79	20.992	
7,400.00	6,888.96	15,243.00	7,668.35	48.45	138.66	53.63	1,843.87	4,989.29	3,510.18	3,338.60	171.58	20.458	
7,500.00	6,979.23	15,243.00	7,668.35	49.28	138.66	53.63	1,843.87	4,989.29	3,458.18	3,284.84	173.34	19.950	
7,600.00	7,069.50	15,219.41	7,668.17	50.11	138.25	53.20	1,867.46	4,988.76	3,408.24	3,233.71	174.54	19.527	
7,692.09	7,152.63	15,191.66	7,667.96	50.87	137.76	52.70	1,895.20	4,988.14	3,364.00	3,188.54	175.45	19.173	
7,700.00	7,159.79	15,189.33	7,667.94	50.93	137.72	51.02	1,897.53	4,988.08	3,360.27	3,184.74	175.53	19.143	
7,750.00	7,205.70	15,188.00	7,667.93	51.32	137.70	39.29	1,898.86	4,988.05	3,336.75	3,160.47	176.28	18.929	
7,800.00	7,252.52	15,188.00	7,667.93	51.66	137.70	24.93	1,898.86	4,988.05	3,313.47	3,136.50	176.98	18.723	
7,850.00	7,299.89	15,173.28	7,667.84	51.96	137.45	7.82	1,913.57	4,987.74	3,290.55	3,113.32	177.23	18.566	
7,900.00	7,347.44	15,173.60	7,667.84	52.20	137.45	-10.01	1,913.25	4,987.74	3,268.29	3,090.55	177.74	18.388	
7,950.00	7,394.83	15,188.00	7,667.93	52.39	137.70	-26.45	1,898.86	4,988.05	3,246.86	3,068.39	178.47	18.193	
8,000.00	7,441.68	15,188.00	7,667.93	52.53	137.70	-40.57	1,898.86	4,988.05	3,226.34	3,047.59	178.76	18.049	
8,050.00	7,487.65	15,193.84	7,667.97	52.62	137.80	-51.73	1,893.02	4,988.19	3,206.96	3,027.88	179.08	17.908	
8,100.00	7,532.37	15,211.54	7,668.11	52.67	138.11	-60.27	1,875.32	4,988.58	3,188.82	3,009.24	179.58	17.757	
8,150.00	7,575.52	15,233.25	7,668.28	52.67	138.49	-66.88	1,853.62	4,989.07	3,171.99	2,991.91	180.08	17.614	
8,200.00	7,616.76	15,243.00	7,668.35	52.63	138.66	-72.29	1,843.87	4,989.29	3,156.59	2,976.39	180.20	17.517	
8,250.00	7,655.77	15,243.00	7,668.35	52.55	138.66	-76.76	1,843.87	4,989.29	3,142.87	2,962.86	180.00	17.460	
8,300.00	7,692.27	15,243.00	7,668.35	52.44	138.66	-80.35	1,843.87	4,989.29	3,130.97	2,951.25	179.71	17.422	
8,350.00	7,725.97	15,243.00	7,668.35	52.29	138.66	-83.24	1,843.87	4,989.29	3,120.99	2,941.66	179.34	17.403	
8,400.00	7,756.62	15,243.00	7,668.35	52.12	138.66	-85.52	1,843.87	4,989.29	3,113.05	2,934.17	178.88	17.403	SF
8,450.00	7,783.98	15,243.00	7,668.35	51.92	138.66	-87.29	1,843.87	4,989.29	3,107.21	2,928.85	178.36	17.421	
8,500.00	7,807.85	15,243.00	7,668.35	51.70	138.66	-88.59	1,843.87	4,989.29	3,103.53	2,925.75	177.78	17.457	
8,550.00	7,828.05	15,243.00	7,668.35	51.45	138.66	-89.48	1,843.87	4,989.29	3,102.04	2,924.89	177.15	17.511	ES
8,558.67	7,831.16	15,243.00	7,668.35	51.41	138.66	-89.59	1,843.87	4,989.29	3,102.01	2,924.97	177.03	17.522	CC
8,600.00	7,844.41	15,243.00	7,668.35	51.20	138.66	-89.97	1,843.87	4,989.29	3,102.76	2,926.28	176.48	17.582	
8,650.00	7,856.82	15,243.00	7,668.35	50.93	138.66	-90.10	1,843.87	4,989.29	3,105.68	2,929.91	175.78	17.668	
8,700.00	7,865.18	15,243.00	7,668.35	50.65	138.66	-89.88	1,843.87	4,989.29	3,110.78	2,935.73	175.06	17.770	
8,750.00	7,869.43	15,243.00	7,668.35	50.36	138.66	-89.32	1,843.87	4,989.29	3,118.01	2,943.68	174.33	17.886	
8,776.25	7,870.00	15,243.00	7,668.35	50.21	138.66	-88.89	1,843.87	4,989.29	3,122.63	2,948.69	173.94	17.952	
8,800.00	7,870.00	15,243.00	7,668.35	50.08	138.66	-88.89	1,843.87	4,989.29	3,127.15	2,953.55	173.59	18.014	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	15,243.00	7,668.35	49.53	138.66	-88.89	1,843.87	4,989.29	3,148.07	2,975.90	172.17	18.284	
9,000.00	7,870.00	15,243.00	7,668.35	49.01	138.66	-88.89	1,843.87	4,989.29	3,172.02	3,001.19	170.82	18.569	
9,100.00	7,870.00	15,243.00	7,668.35	48.52	138.66	-88.89	1,843.87	4,989.29	3,198.91	3,029.36	169.55	18.867	
9,200.00	7,870.00	15,243.00	7,668.35	48.06	138.66	-88.89	1,843.87	4,989.29	3,228.67	3,060.31	168.36	19.177	
9,300.00	7,870.00	15,243.00	7,668.35	47.63	138.66	-88.89	1,843.87	4,989.29	3,261.23	3,093.96	167.27	19.497	
9,400.00	7,870.00	15,243.00	7,668.35	47.22	138.66	-88.89	1,843.87	4,989.29	3,296.51	3,130.24	166.26	19.827	
9,500.00	7,870.00	15,243.00	7,668.35	46.83	138.66	-88.89	1,843.87	4,989.29	3,334.41	3,169.07	165.33	20.168	
9,600.00	7,870.00	15,243.00	7,668.35	46.48	138.66	-88.89	1,843.87	4,989.29	3,374.85	3,210.36	164.48	20.518	
9,700.00	7,870.00	15,243.00	7,668.35	46.14	138.66	-88.89	1,843.87	4,989.29	3,417.73	3,254.04	163.70	20.878	
9,800.00	7,870.00	15,243.00	7,668.35	45.83	138.66	-88.89	1,843.87	4,989.29	3,462.98	3,300.01	162.97	21.249	
9,900.00	7,870.00	15,243.00	7,668.35	45.54	138.66	-88.89	1,843.87	4,989.29	3,510.49	3,348.20	162.29	21.631	
10,000.00	7,870.00	15,243.00	7,668.35	45.27	138.66	-88.89	1,843.87	4,989.29	3,560.18	3,398.53	161.65	22.025	
10,100.00	7,870.00	15,243.00	7,668.35	45.03	138.66	-88.89	1,843.87	4,989.29	3,611.95	3,450.91	161.03	22.430	
10,200.00	7,870.00	15,243.00	7,668.35	44.82	138.66	-88.89	1,843.87	4,989.29	3,665.72	3,505.27	160.45	22.847	
10,300.00	7,870.00	15,243.00	7,668.35	44.66	138.66	-88.89	1,843.87	4,989.29	3,721.40	3,561.52	159.88	23.277	
10,400.00	7,870.00	15,243.00	7,668.35	44.56	138.66	-88.89	1,843.87	4,989.29	3,778.90	3,619.59	159.32	23.719	
10,500.00	7,870.00	15,243.00	7,668.35	44.58	138.66	-88.89	1,843.87	4,989.29	3,838.16	3,679.38	158.77	24.174	
10,600.00	7,870.00	15,243.00	7,668.35	44.82	138.66	-88.89	1,843.87	4,989.29	3,899.07	3,740.84	158.23	24.642	
10,700.00	7,870.00	15,243.00	7,668.35	45.36	138.66	-88.89	1,843.87	4,989.29	3,961.57	3,803.88	157.69	25.122	
10,800.00	7,870.00	15,243.00	7,668.35	46.15	138.66	-88.89	1,843.87	4,989.29	4,025.59	3,868.43	157.16	25.615	
10,900.00	7,870.00	15,243.00	7,668.35	47.09	138.66	-88.89	1,843.87	4,989.29	4,091.05	3,934.42	156.63	26.120	
11,000.00	7,870.00	15,243.00	7,668.35	48.13	138.66	-88.89	1,843.87	4,989.29	4,157.89	4,001.79	156.10	26.637	
11,100.00	7,870.00	15,243.00	7,668.35	49.22	138.66	-88.89	1,843.87	4,989.29	4,226.03	4,070.47	155.57	27.166	
11,200.00	7,870.00	15,243.00	7,668.35	50.37	138.66	-88.89	1,843.87	4,989.29	4,295.42	4,140.39	155.04	27.706	
11,300.00	7,870.00	15,243.00	7,668.35	51.55	138.66	-88.89	1,843.87	4,989.29	4,366.00	4,211.50	154.51	28.258	
11,400.00	7,870.00	15,243.00	7,668.35	52.76	138.66	-88.89	1,843.87	4,989.29	4,437.71	4,283.73	153.98	28.820	
11,500.00	7,870.00	15,243.00	7,668.35	54.00	138.66	-88.89	1,843.87	4,989.29	4,510.50	4,357.05	153.45	29.394	
11,600.00	7,870.00	15,243.00	7,668.35	55.27	138.66	-88.89	1,843.87	4,989.29	4,584.31	4,431.39	152.93	29.977	
11,700.00	7,870.00	15,243.00	7,668.35	56.56	138.66	-88.89	1,843.87	4,989.29	4,659.10	4,506.70	152.40	30.571	
11,800.00	7,870.00	15,243.00	7,668.35	57.88	138.66	-88.89	1,843.87	4,989.29	4,734.82	4,582.94	151.88	31.174	
11,900.00	7,870.00	15,243.00	7,668.35	59.21	138.66	-88.89	1,843.87	4,989.29	4,811.43	4,660.06	151.37	31.786	
12,000.00	7,870.00	15,243.00	7,668.35	60.57	138.66	-88.89	1,843.87	4,989.29	4,888.88	4,738.03	150.86	32.408	
12,100.00	7,870.00	15,243.00	7,668.35	61.94	138.66	-88.89	1,843.87	4,989.29	4,967.14	4,816.80	150.35	33.038	
12,200.00	7,870.00	15,243.00	7,668.35	63.33	138.66	-88.89	1,843.87	4,989.29	5,046.17	4,896.33	149.84	33.676	
12,300.00	7,870.00	15,243.00	7,668.35	64.74	138.66	-88.89	1,843.87	4,989.29	5,125.93	4,976.58	149.35	34.322	
12,400.00	7,870.00	15,243.00	7,668.35	66.16	138.66	-88.89	1,843.87	4,989.29	5,206.39	5,057.53	148.85	34.976	
12,500.00	7,870.00	15,243.00	7,668.35	67.59	138.66	-88.89	1,843.87	4,989.29	5,287.51	5,139.14	148.37	35.638	
12,600.00	7,870.00	15,243.00	7,668.35	69.04	138.66	-88.89	1,843.87	4,989.29	5,369.27	5,221.39	147.89	36.307	
12,700.00	7,870.00	15,243.00	7,668.35	70.51	138.66	-88.89	1,843.87	4,989.29	5,451.64	5,304.23	147.41	36.982	
12,800.00	7,870.00	15,243.00	7,668.35	71.98	138.66	-88.89	1,843.87	4,989.29	5,534.59	5,387.65	146.94	37.665	
12,900.00	7,870.00	15,243.00	7,668.35	73.47	138.66	-88.89	1,843.87	4,989.29	5,618.10	5,471.62	146.48	38.353	
13,000.00	7,870.00	15,243.00	7,668.35	74.96	138.66	-88.89	1,843.87	4,989.29	5,702.14	5,556.11	146.03	39.048	
13,100.00	7,870.00	15,243.00	7,668.35	76.47	138.66	-88.89	1,843.87	4,989.29	5,786.68	5,641.10	145.58	39.748	
13,200.00	7,870.00	15,243.00	7,668.35	77.99	138.66	-88.89	1,843.87	4,989.29	5,871.71	5,726.57	145.14	40.454	
13,300.00	7,870.00	15,243.00	7,668.35	79.51	138.66	-88.89	1,843.87	4,989.29	5,957.21	5,812.50	144.71	41.166	
13,400.00	7,870.00	15,243.00	7,668.35	81.05	138.66	-88.89	1,843.87	4,989.29	6,043.15	5,898.86	144.29	41.883	
13,500.00	7,870.00	15,243.00	7,668.35	82.59	138.66	-88.89	1,843.87	4,989.29	6,129.52	5,985.65	143.87	42.605	
13,600.00	7,870.00	15,243.00	7,668.35	84.14	138.66	-88.89	1,843.87	4,989.29	6,216.29	6,072.83	143.46	43.331	
13,700.00	7,870.00	15,243.00	7,668.35	85.70	138.66	-88.89	1,843.87	4,989.29	6,303.46	6,160.40	143.06	44.062	
13,800.00	7,870.00	15,243.00	7,668.35	87.26	138.66	-88.89	1,843.87	4,989.29	6,391.00	6,248.34	142.66	44.798	
13,900.00	7,870.00	15,243.00	7,668.35	88.83	138.66	-88.89	1,843.87	4,989.29	6,478.91	6,336.63	142.28	45.538	
14,000.00	7,870.00	15,243.00	7,668.35	90.41	138.66	-88.89	1,843.87	4,989.29	6,567.16	6,425.26	141.90	46.281	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	15,243.00	7,668.35	92.00	138.66	-88.89	1,843.87	4,989.29	6,655.74	6,514.22	141.52	47.029	
14,200.00	7,870.00	15,243.00	7,668.35	93.59	138.66	-88.89	1,843.87	4,989.29	6,744.64	6,603.48	141.16	47.781	
14,300.00	7,870.00	15,243.00	7,668.35	95.18	138.66	-88.89	1,843.87	4,989.29	6,833.85	6,693.05	140.80	48.536	
14,400.00	7,870.00	15,243.00	7,668.35	96.79	138.66	-88.89	1,843.87	4,989.29	6,923.35	6,782.90	140.45	49.294	
14,500.00	7,870.00	15,243.00	7,668.35	98.39	138.66	-88.89	1,843.87	4,989.29	7,013.14	6,873.03	140.11	50.056	
14,600.00	7,870.00	15,243.00	7,668.35	100.00	138.66	-88.89	1,843.87	4,989.29	7,103.20	6,963.43	139.77	50.821	
14,700.00	7,870.00	15,243.00	7,668.35	101.62	138.66	-88.89	1,843.87	4,989.29	7,193.52	7,054.08	139.44	51.589	
14,800.00	7,870.00	15,243.00	7,668.35	103.24	138.66	-88.89	1,843.87	4,989.29	7,284.10	7,144.98	139.12	52.360	
14,900.00	7,870.00	15,243.00	7,668.35	104.87	138.66	-88.89	1,843.87	4,989.29	7,374.92	7,236.12	138.80	53.133	
15,000.00	7,870.00	15,243.00	7,668.35	106.50	138.66	-88.89	1,843.87	4,989.29	7,465.97	7,327.48	138.49	53.909	
15,100.00	7,870.00	15,243.00	7,668.35	108.13	138.66	-88.89	1,843.87	4,989.29	7,557.25	7,419.06	138.19	54.688	
15,200.00	7,870.00	15,243.00	7,668.35	109.77	138.66	-88.89	1,843.87	4,989.29	7,648.75	7,510.86	137.89	55.469	
15,300.00	7,870.00	15,243.00	7,668.35	111.41	138.66	-88.89	1,843.87	4,989.29	7,740.46	7,602.86	137.60	56.253	
15,400.00	7,870.00	15,243.00	7,668.35	113.05	138.66	-88.89	1,843.87	4,989.29	7,832.37	7,695.05	137.32	57.039	
15,500.00	7,870.00	15,243.00	7,668.35	114.70	138.66	-88.89	1,843.87	4,989.29	7,924.47	7,787.44	137.04	57.826	
15,600.00	7,870.00	15,243.00	7,668.35	116.35	138.66	-88.89	1,843.87	4,989.29	8,016.77	7,880.00	136.77	58.616	
15,700.00	7,870.00	15,243.00	7,668.35	118.00	138.66	-88.89	1,843.87	4,989.29	8,109.25	7,972.75	136.50	59.408	
15,800.00	7,870.00	15,243.00	7,668.35	119.66	138.66	-88.89	1,843.87	4,989.29	8,201.91	8,065.66	136.24	60.202	
15,900.00	7,870.00	15,243.00	7,668.35	121.32	138.66	-88.89	1,843.87	4,989.29	8,294.73	8,158.75	135.99	60.997	
16,000.00	7,870.00	15,243.00	7,668.35	122.98	138.66	-88.89	1,843.87	4,989.29	8,387.72	8,251.99	135.74	61.794	
16,100.00	7,870.00	15,243.00	7,668.35	124.65	138.66	-88.89	1,843.87	4,989.29	8,480.87	8,345.38	135.49	62.593	
16,200.00	7,870.00	15,243.00	7,668.35	126.32	138.66	-88.89	1,843.87	4,989.29	8,574.18	8,438.92	135.26	63.393	
16,300.00	7,870.00	15,243.00	7,668.35	127.99	138.66	-88.89	1,843.87	4,989.29	8,667.63	8,532.61	135.02	64.194	
16,400.00	7,870.00	15,243.00	7,668.35	129.66	138.66	-88.89	1,843.87	4,989.29	8,761.23	8,626.44	134.79	64.997	
16,500.00	7,870.00	15,243.00	7,668.35	131.33	138.66	-88.89	1,843.87	4,989.29	8,854.97	8,720.40	134.57	65.801	
16,600.00	7,870.00	15,243.00	7,668.35	133.01	138.66	-88.89	1,843.87	4,989.29	8,948.84	8,814.49	134.35	66.607	
16,700.00	7,870.00	15,243.00	7,668.35	134.69	138.66	-88.89	1,843.87	4,989.29	9,042.85	8,908.71	134.14	67.413	
16,800.00	7,870.00	15,243.00	7,668.35	136.37	138.66	-88.89	1,843.87	4,989.29	9,136.98	9,003.05	133.93	68.221	
16,900.00	7,870.00	15,243.00	7,668.35	138.06	138.66	-88.89	1,843.87	4,989.29	9,231.24	9,097.51	133.73	69.030	
17,000.00	7,870.00	15,243.00	7,668.35	139.74	138.66	-88.89	1,843.87	4,989.29	9,325.61	9,192.08	133.53	69.839	
17,100.00	7,870.00	15,243.00	7,668.35	141.43	138.66	-88.89	1,843.87	4,989.29	9,420.10	9,286.77	133.34	70.650	
17,200.00	7,870.00	15,243.00	7,668.35	143.12	138.66	-88.89	1,843.87	4,989.29	9,514.71	9,381.56	133.14	71.461	
17,300.00	7,870.00	15,243.00	7,668.35	144.81	138.66	-88.89	1,843.87	4,989.29	9,609.42	9,476.46	132.96	72.274	
17,400.00	7,870.00	15,243.00	7,668.35	146.50	138.66	-88.89	1,843.87	4,989.29	9,704.24	9,571.47	132.78	73.087	
17,500.00	7,870.00	15,243.00	7,668.35	148.19	138.66	-88.89	1,843.87	4,989.29	9,799.17	9,666.57	132.60	73.900	
17,600.00	7,870.00	15,243.00	7,668.35	149.89	138.66	-88.89	1,843.87	4,989.29	9,894.19	9,761.76	132.43	74.715	
17,700.00	7,870.00	15,243.00	7,668.35	151.59	138.66	-88.89	1,843.87	4,989.29	9,989.31	9,857.05	132.26	75.530	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,134.00	7,566.57	0.00	139.08	65.93	1,823.32	4,081.03	8,910.75				
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.93	1,823.32	4,081.03	8,824.38	8,738.32	86.06	102.539	
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.93	1,823.32	4,081.03	8,738.31	8,651.87	86.44	101.094	
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.93	1,823.32	4,081.03	8,652.53	8,565.68	86.85	99.631	
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.93	1,823.32	4,081.03	8,567.06	8,479.78	87.28	98.152	
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.93	1,823.32	4,081.03	8,481.91	8,394.16	87.75	96.660	
600.00	600.00	15,134.00	7,566.57	1.93	139.08	65.93	1,823.32	4,081.03	8,397.09	8,308.85	88.24	95.157	
700.00	700.00	15,134.00	7,566.57	2.29	139.08	65.93	1,823.32	4,081.03	8,312.60	8,223.84	88.77	93.647	
800.00	800.00	15,134.00	7,566.57	2.64	139.08	65.93	1,823.32	4,081.03	8,228.47	8,139.16	89.31	92.133	
900.00	900.00	15,134.00	7,566.57	3.00	139.08	65.93	1,823.32	4,081.03	8,144.69	8,054.81	89.88	90.617	
1,000.00	1,000.00	15,134.00	7,566.57	3.36	139.08	65.93	1,823.32	4,081.03	8,061.28	7,970.81	90.47	89.101	
1,100.00	1,100.00	15,134.00	7,566.57	3.72	139.08	65.93	1,823.32	4,081.03	7,978.25	7,887.17	91.09	87.590	
1,200.00	1,200.00	15,134.00	7,566.57	4.08	139.08	65.93	1,823.32	4,081.03	7,895.62	7,803.90	91.72	86.083	
1,300.00	1,300.00	15,134.00	7,566.57	4.44	139.08	65.93	1,823.32	4,081.03	7,813.39	7,721.02	92.38	84.583	
1,400.00	1,399.98	15,134.00	7,566.57	4.79	139.08	24.16	1,823.32	4,081.03	7,730.67	7,637.62	93.05	83.083	
1,500.00	1,499.84	15,134.00	7,566.57	5.15	139.08	25.46	1,823.32	4,081.03	7,646.59	7,552.86	93.73	81.584	
1,600.00	1,599.45	15,134.00	7,566.57	5.51	139.08	26.91	1,823.32	4,081.03	7,561.20	7,466.80	94.40	80.099	
1,700.00	1,698.70	15,134.00	7,566.57	5.87	139.08	28.53	1,823.32	4,081.03	7,474.57	7,379.51	95.06	78.628	
1,800.00	1,797.47	15,134.00	7,566.57	6.24	139.08	30.33	1,823.32	4,081.03	7,386.76	7,291.04	95.72	77.171	
1,900.00	1,895.62	15,134.00	7,566.57	6.63	139.08	32.35	1,823.32	4,081.03	7,297.83	7,201.47	96.37	75.729	
2,000.00	1,993.06	15,134.00	7,566.57	7.04	139.08	34.63	1,823.32	4,081.03	7,207.87	7,110.86	97.01	74.303	
2,100.00	2,089.64	15,134.00	7,566.57	7.48	139.08	37.19	1,823.32	4,081.03	7,116.93	7,019.29	97.64	72.891	
2,200.00	2,185.27	15,134.00	7,566.57	7.94	139.08	40.09	1,823.32	4,081.03	7,025.09	6,926.83	98.26	71.495	
2,300.00	2,279.82	15,134.00	7,566.57	8.45	139.08	43.37	1,823.32	4,081.03	6,932.44	6,833.56	98.87	70.114	
2,400.00	2,373.17	15,134.00	7,566.57	8.99	139.08	47.07	1,823.32	4,081.03	6,839.05	6,739.57	99.48	68.749	
2,500.00	2,465.21	15,134.00	7,566.57	9.58	139.08	51.26	1,823.32	4,081.03	6,745.00	6,644.93	100.07	67.400	
2,574.08	2,532.50	15,134.00	7,566.57	10.04	139.08	54.69	1,823.32	4,081.03	6,674.97	6,574.46	100.51	66.410	
2,600.00	2,555.89	15,134.00	7,566.57	10.21	139.08	54.69	1,823.32	4,081.03	6,650.42	6,549.76	100.66	66.066	
2,700.00	2,646.16	15,134.00	7,566.57	10.88	139.08	54.69	1,823.32	4,081.03	6,555.81	6,454.55	101.26	64.742	
2,800.00	2,736.44	15,134.00	7,566.57	11.57	139.08	54.69	1,823.32	4,081.03	6,461.37	6,359.49	101.88	63.420	
2,900.00	2,826.71	15,134.00	7,566.57	12.27	139.08	54.69	1,823.32	4,081.03	6,367.09	6,264.57	102.53	62.103	
3,000.00	2,916.98	15,134.00	7,566.57	13.00	139.08	54.69	1,823.32	4,081.03	6,272.99	6,169.80	103.19	60.789	
3,100.00	3,007.25	15,134.00	7,566.57	13.73	139.08	54.69	1,823.32	4,081.03	6,179.08	6,075.19	103.89	59.480	
3,200.00	3,097.52	15,134.00	7,566.57	14.48	139.08	54.69	1,823.32	4,081.03	6,085.36	5,980.75	104.60	58.176	
3,300.00	3,187.80	15,134.00	7,566.57	15.23	139.08	54.69	1,823.32	4,081.03	5,991.84	5,886.49	105.35	56.878	
3,400.00	3,278.07	15,134.00	7,566.57	15.99	139.08	54.69	1,823.32	4,081.03	5,898.54	5,792.42	106.12	55.586	
3,500.00	3,368.34	15,134.00	7,566.57	16.76	139.08	54.69	1,823.32	4,081.03	5,805.45	5,698.54	106.91	54.301	
3,600.00	3,458.61	15,134.00	7,566.57	17.54	139.08	54.69	1,823.32	4,081.03	5,712.61	5,604.87	107.74	53.024	
3,700.00	3,548.89	15,134.00	7,566.57	18.32	139.08	54.69	1,823.32	4,081.03	5,620.00	5,511.41	108.59	51.754	
3,800.00	3,639.16	15,134.00	7,566.57	19.10	139.08	54.69	1,823.32	4,081.03	5,527.66	5,418.19	109.47	50.493	
3,900.00	3,729.43	15,134.00	7,566.57	19.89	139.08	54.69	1,823.32	4,081.03	5,435.59	5,325.20	110.39	49.241	
4,000.00	3,819.70	15,134.00	7,566.57	20.69	139.08	54.69	1,823.32	4,081.03	5,343.80	5,232.47	111.33	47.999	
4,100.00	3,909.98	15,134.00	7,566.57	21.48	139.08	54.69	1,823.32	4,081.03	5,252.31	5,140.00	112.31	46.766	
4,200.00	4,000.25	15,134.00	7,566.57	22.28	139.08	54.69	1,823.32	4,081.03	5,161.14	5,047.81	113.32	45.544	
4,300.00	4,090.52	15,134.00	7,566.57	23.08	139.08	54.69	1,823.32	4,081.03	5,070.29	4,955.93	114.37	44.333	
4,400.00	4,180.79	15,134.00	7,566.57	23.88	139.08	54.69	1,823.32	4,081.03	4,979.81	4,864.35	115.45	43.133	
4,500.00	4,271.06	15,134.00	7,566.57	24.69	139.08	54.69	1,823.32	4,081.03	4,889.69	4,773.12	116.57	41.946	
4,600.00	4,361.34	15,134.00	7,566.57	25.49	139.08	54.69	1,823.32	4,081.03	4,799.96	4,682.23	117.73	40.771	
4,700.00	4,451.61	15,134.00	7,566.57	26.30	139.08	54.69	1,823.32	4,081.03	4,710.65	4,591.72	118.93	39.609	
4,800.00	4,541.88	15,134.00	7,566.57	27.11	139.08	54.69	1,823.32	4,081.03	4,621.77	4,501.60	120.17	38.460	
4,900.00	4,632.15	15,134.00	7,566.57	27.92	139.08	54.69	1,823.32	4,081.03	4,533.36	4,411.90	121.45	37.325	
5,000.00	4,722.43	15,134.00	7,566.57	28.74	139.08	54.69	1,823.32	4,081.03	4,445.44	4,322.65	122.78	36.206	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	15,134.00	7,566.57	29.55	139.08	54.69	1,823.32	4,081.03	4,358.04	4,233.88	124.16	35.101	
5,200.00	4,902.97	15,134.00	7,566.57	30.37	139.08	54.69	1,823.32	4,081.03	4,271.19	4,145.61	125.58	34.012	
5,300.00	4,993.24	15,134.00	7,566.57	31.18	139.08	54.69	1,823.32	4,081.03	4,184.93	4,057.88	127.05	32.939	
5,400.00	5,083.51	15,134.00	7,566.57	32.00	139.08	54.69	1,823.32	4,081.03	4,099.29	3,970.72	128.57	31.883	
5,500.00	5,173.79	15,134.00	7,566.57	32.82	139.08	54.69	1,823.32	4,081.03	4,014.32	3,884.17	130.15	30.844	
5,600.00	5,264.06	15,134.00	7,566.57	33.63	139.08	54.69	1,823.32	4,081.03	3,930.06	3,798.28	131.78	29.824	
5,700.00	5,354.33	15,134.00	7,566.57	34.45	139.08	54.69	1,823.32	4,081.03	3,846.55	3,713.09	133.46	28.822	
5,800.00	5,444.60	15,134.00	7,566.57	35.27	139.08	54.69	1,823.32	4,081.03	3,763.84	3,628.64	135.20	27.839	
5,900.00	5,534.88	15,134.00	7,566.57	36.09	139.08	54.69	1,823.32	4,081.03	3,681.99	3,545.00	136.99	26.877	
6,000.00	5,625.15	15,134.00	7,566.57	36.91	139.08	54.69	1,823.32	4,081.03	3,601.06	3,462.22	138.85	25.935	
6,100.00	5,715.42	15,134.00	7,566.57	37.74	139.08	54.69	1,823.32	4,081.03	3,521.11	3,380.35	140.76	25.015	
6,200.00	5,805.69	15,134.00	7,566.57	38.56	139.08	54.69	1,823.32	4,081.03	3,442.21	3,299.48	142.73	24.117	
6,300.00	5,895.96	15,134.00	7,566.57	39.38	139.08	54.69	1,823.32	4,081.03	3,364.43	3,219.67	144.76	23.242	
6,400.00	5,986.24	15,134.00	7,566.57	40.20	139.08	54.69	1,823.32	4,081.03	3,287.85	3,141.01	146.84	22.390	
6,500.00	6,076.51	15,134.00	7,566.57	41.03	139.08	54.69	1,823.32	4,081.03	3,212.56	3,063.57	148.98	21.563	
6,600.00	6,166.78	15,134.00	7,566.57	41.85	139.08	54.69	1,823.32	4,081.03	3,138.65	2,987.47	151.18	20.761	
6,700.00	6,257.05	15,134.00	7,566.57	42.67	139.08	54.69	1,823.32	4,081.03	3,066.21	2,912.79	153.42	19.985	
6,800.00	6,347.33	15,134.00	7,566.57	43.50	139.08	54.69	1,823.32	4,081.03	2,995.37	2,839.66	155.71	19.237	
6,900.00	6,437.60	15,134.00	7,566.57	44.32	139.08	54.69	1,823.32	4,081.03	2,926.23	2,768.19	158.04	18.516	
7,000.00	6,527.87	15,134.00	7,566.57	45.15	139.08	54.69	1,823.32	4,081.03	2,858.92	2,698.51	160.40	17.824	
7,100.00	6,618.14	15,134.00	7,566.57	45.98	139.08	54.69	1,823.32	4,081.03	2,793.56	2,630.77	162.78	17.161	
7,200.00	6,708.41	15,134.00	7,566.57	46.80	139.08	54.69	1,823.32	4,081.03	2,730.30	2,565.12	165.18	16.529	
7,300.00	6,798.69	15,134.00	7,566.57	47.63	139.08	54.69	1,823.32	4,081.03	2,669.29	2,501.71	167.58	15.929	
7,400.00	6,888.96	15,134.00	7,566.57	48.45	139.08	54.69	1,823.32	4,081.03	2,610.69	2,440.73	169.96	15.361	
7,500.00	6,979.23	15,134.00	7,566.57	49.28	139.08	54.69	1,823.32	4,081.03	2,554.66	2,382.35	172.30	14.826	
7,600.00	7,069.50	15,119.15	7,566.24	50.11	138.82	54.31	1,838.16	4,080.80	2,501.32	2,327.15	174.18	14.361	
7,692.09	7,152.63	15,092.42	7,565.65	50.87	138.36	53.64	1,864.89	4,080.39	2,454.53	2,279.06	175.46	13.989	
7,700.00	7,159.79	15,090.18	7,565.60	50.93	138.32	51.92	1,867.13	4,080.35	2,450.60	2,275.03	175.57	13.958	
7,750.00	7,205.70	15,079.57	7,565.34	51.32	138.13	39.74	1,878.87	4,080.17	2,425.92	2,249.65	176.27	13.762	
7,800.00	7,252.52	15,072.37	7,565.21	51.66	138.01	25.06	1,884.93	4,080.08	2,401.61	2,224.64	176.97	13.570	
7,850.00	7,299.89	15,069.77	7,565.16	51.96	137.96	8.05	1,887.53	4,080.04	2,377.90	2,200.24	177.66	13.384	
7,900.00	7,347.44	15,070.74	7,565.18	52.20	137.98	-9.85	1,886.56	4,080.06	2,355.02	2,176.71	178.31	13.208	
7,950.00	7,394.83	15,075.32	7,565.27	52.39	138.06	-26.50	1,881.99	4,080.13	2,333.15	2,154.24	178.91	13.041	
8,000.00	7,441.68	15,084.55	7,565.48	52.53	138.22	-40.40	1,872.75	4,080.27	2,312.46	2,132.97	179.49	12.883	
8,050.00	7,487.65	15,098.68	7,565.79	52.62	138.46	-51.30	1,858.63	4,080.48	2,293.10	2,113.03	180.07	12.735	
8,100.00	7,532.37	15,116.93	7,566.20	52.67	138.78	-59.68	1,840.39	4,080.76	2,275.16	2,094.55	180.62	12.597	
8,150.00	7,575.52	15,139.16	7,566.69	52.67	139.17	-66.10	1,818.17	4,081.11	2,258.73	2,077.59	181.14	12.470	
8,200.00	7,616.76	15,134.00	7,566.57	52.63	139.08	-71.71	1,823.32	4,081.03	2,244.05	2,063.36	180.68	12.420	
8,250.00	7,655.77	15,134.00	7,566.57	52.55	139.08	-76.07	1,823.32	4,081.03	2,231.33	2,051.09	180.23	12.380	
8,300.00	7,692.27	15,134.00	7,566.57	52.44	139.08	-79.54	1,823.32	4,081.03	2,220.70	2,041.06	179.64	12.362	SF
8,350.00	7,725.97	15,134.00	7,566.57	52.29	139.08	-82.27	1,823.32	4,081.03	2,212.28	2,033.37	178.90	12.366	
8,400.00	7,756.62	15,134.00	7,566.57	52.12	139.08	-84.38	1,823.32	4,081.03	2,206.15	2,028.10	178.05	12.391	
8,450.00	7,783.98	15,134.00	7,566.57	51.92	139.08	-85.94	1,823.32	4,081.03	2,202.38	2,025.30	177.08	12.437	
8,500.00	7,807.85	15,134.00	7,566.57	51.70	139.08	-87.03	1,823.32	4,081.03	2,201.01	2,024.99	176.01	12.505	ES
8,503.35	7,809.32	15,134.00	7,566.57	51.68	139.08	-87.08	1,823.32	4,081.03	2,201.00	2,025.06	175.94	12.510	CC
8,550.00	7,828.05	15,134.00	7,566.57	51.45	139.08	-87.67	1,823.32	4,081.03	2,202.05	2,027.18	174.87	12.592	
8,600.00	7,844.41	15,134.00	7,566.57	51.20	139.08	-87.91	1,823.32	4,081.03	2,205.50	2,031.83	173.67	12.699	
8,650.00	7,856.82	15,134.00	7,566.57	50.93	139.08	-87.75	1,823.32	4,081.03	2,211.32	2,038.88	172.44	12.824	
8,700.00	7,865.18	15,134.00	7,566.57	50.65	139.08	-87.22	1,823.32	4,081.03	2,219.44	2,048.26	171.18	12.966	
8,750.00	7,869.43	15,134.00	7,566.57	50.36	139.08	-86.33	1,823.32	4,081.03	2,229.78	2,059.87	169.91	13.123	
8,776.25	7,870.00	15,134.00	7,566.57	50.21	139.08	-85.72	1,823.32	4,081.03	2,236.06	2,066.81	169.26	13.211	
8,800.00	7,870.00	15,134.00	7,566.57	50.08	139.08	-85.72	1,823.32	4,081.03	2,242.12	2,073.46	168.66	13.294	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	15,134.00	7,566.57	49.53	139.08	-85.72	1,823.32	4,081.03	2,270.17	2,103.97	166.20	13.659	
9,000.00	7,870.00	15,134.00	7,566.57	49.01	139.08	-85.72	1,823.32	4,081.03	2,302.23	2,138.42	163.81	14.054	
9,100.00	7,870.00	15,134.00	7,566.57	48.52	139.08	-85.72	1,823.32	4,081.03	2,338.13	2,176.61	161.52	14.476	
9,200.00	7,870.00	15,134.00	7,566.57	48.06	139.08	-85.72	1,823.32	4,081.03	2,377.70	2,218.36	159.34	14.922	
9,300.00	7,870.00	15,134.00	7,566.57	47.63	139.08	-85.72	1,823.32	4,081.03	2,420.75	2,263.49	157.26	15.393	
9,400.00	7,870.00	15,134.00	7,566.57	47.22	139.08	-85.72	1,823.32	4,081.03	2,467.11	2,311.82	155.29	15.887	
9,500.00	7,870.00	15,134.00	7,566.57	46.83	139.08	-85.72	1,823.32	4,081.03	2,516.59	2,363.17	153.42	16.403	
9,600.00	7,870.00	15,134.00	7,566.57	46.48	139.08	-85.72	1,823.32	4,081.03	2,569.01	2,417.37	151.65	16.941	
9,700.00	7,870.00	15,134.00	7,566.57	46.14	139.08	-85.72	1,823.32	4,081.03	2,624.20	2,474.24	149.95	17.500	
9,800.00	7,870.00	15,134.00	7,566.57	45.83	139.08	-85.72	1,823.32	4,081.03	2,681.98	2,533.64	148.33	18.081	
9,900.00	7,870.00	15,134.00	7,566.57	45.54	139.08	-85.72	1,823.32	4,081.03	2,742.19	2,595.41	146.78	18.682	
10,000.00	7,870.00	15,134.00	7,566.57	45.27	139.08	-85.72	1,823.32	4,081.03	2,804.67	2,659.38	145.29	19.304	
10,100.00	7,870.00	15,134.00	7,566.57	45.03	139.08	-85.72	1,823.32	4,081.03	2,869.28	2,725.43	143.85	19.946	
10,200.00	7,870.00	15,134.00	7,566.57	44.82	139.08	-85.72	1,823.32	4,081.03	2,935.88	2,793.41	142.47	20.608	
10,300.00	7,870.00	15,134.00	7,566.57	44.66	139.08	-85.72	1,823.32	4,081.03	3,004.32	2,863.20	141.13	21.288	
10,400.00	7,870.00	15,134.00	7,566.57	44.56	139.08	-85.72	1,823.32	4,081.03	3,074.50	2,934.67	139.83	21.987	
10,500.00	7,870.00	15,134.00	7,566.57	44.58	139.08	-85.72	1,823.32	4,081.03	3,146.29	3,007.71	138.58	22.704	
10,600.00	7,870.00	15,134.00	7,566.57	44.82	139.08	-85.72	1,823.32	4,081.03	3,219.59	3,082.22	137.37	23.438	
10,700.00	7,870.00	15,134.00	7,566.57	45.36	139.08	-85.72	1,823.32	4,081.03	3,294.29	3,158.09	136.19	24.188	
10,800.00	7,870.00	15,134.00	7,566.57	46.15	139.08	-85.72	1,823.32	4,081.03	3,370.30	3,235.24	135.06	24.954	
10,900.00	7,870.00	15,134.00	7,566.57	47.09	139.08	-85.72	1,823.32	4,081.03	3,447.54	3,313.57	133.96	25.735	
11,000.00	7,870.00	15,134.00	7,566.57	48.13	139.08	-85.72	1,823.32	4,081.03	3,525.92	3,393.02	132.90	26.531	
11,100.00	7,870.00	15,134.00	7,566.57	49.22	139.08	-85.72	1,823.32	4,081.03	3,605.37	3,473.50	131.87	27.340	
11,200.00	7,870.00	15,134.00	7,566.57	50.37	139.08	-85.72	1,823.32	4,081.03	3,685.82	3,554.94	130.88	28.162	
11,300.00	7,870.00	15,134.00	7,566.57	51.55	139.08	-85.72	1,823.32	4,081.03	3,767.21	3,637.29	129.92	28.997	
11,400.00	7,870.00	15,134.00	7,566.57	52.76	139.08	-85.72	1,823.32	4,081.03	3,849.47	3,720.49	128.99	29.843	
11,500.00	7,870.00	15,134.00	7,566.57	54.00	139.08	-85.72	1,823.32	4,081.03	3,932.56	3,804.47	128.09	30.701	
11,600.00	7,870.00	15,134.00	7,566.57	55.27	139.08	-85.72	1,823.32	4,081.03	4,016.42	3,889.19	127.23	31.569	
11,700.00	7,870.00	15,134.00	7,566.57	56.56	139.08	-85.72	1,823.32	4,081.03	4,101.00	3,974.61	126.39	32.447	
11,800.00	7,870.00	15,134.00	7,566.57	57.88	139.08	-85.72	1,823.32	4,081.03	4,186.27	4,060.68	125.58	33.334	
11,900.00	7,870.00	15,134.00	7,566.57	59.21	139.08	-85.72	1,823.32	4,081.03	4,272.17	4,147.36	124.81	34.231	
12,000.00	7,870.00	15,134.00	7,566.57	60.57	139.08	-85.72	1,823.32	4,081.03	4,358.67	4,234.62	124.05	35.135	
12,100.00	7,870.00	15,134.00	7,566.57	61.94	139.08	-85.72	1,823.32	4,081.03	4,445.74	4,322.41	123.33	36.048	
12,200.00	7,870.00	15,134.00	7,566.57	63.33	139.08	-85.72	1,823.32	4,081.03	4,533.34	4,410.71	122.63	36.968	
12,300.00	7,870.00	15,134.00	7,566.57	64.74	139.08	-85.72	1,823.32	4,081.03	4,621.45	4,499.49	121.95	37.896	
12,400.00	7,870.00	15,134.00	7,566.57	66.16	139.08	-85.72	1,823.32	4,081.03	4,710.03	4,588.73	121.30	38.829	
12,500.00	7,870.00	15,134.00	7,566.57	67.59	139.08	-85.72	1,823.32	4,081.03	4,799.06	4,678.39	120.67	39.769	
12,600.00	7,870.00	15,134.00	7,566.57	69.04	139.08	-85.72	1,823.32	4,081.03	4,888.51	4,768.45	120.07	40.715	
12,700.00	7,870.00	15,134.00	7,566.57	70.51	139.08	-85.72	1,823.32	4,081.03	4,978.37	4,858.89	119.48	41.666	
12,800.00	7,870.00	15,134.00	7,566.57	71.98	139.08	-85.72	1,823.32	4,081.03	5,068.60	4,949.68	118.92	42.623	
12,900.00	7,870.00	15,134.00	7,566.57	73.47	139.08	-85.72	1,823.32	4,081.03	5,159.20	5,040.82	118.37	43.584	
13,000.00	7,870.00	15,134.00	7,566.57	74.96	139.08	-85.72	1,823.32	4,081.03	5,250.13	5,132.29	117.85	44.550	
13,100.00	7,870.00	15,134.00	7,566.57	76.47	139.08	-85.72	1,823.32	4,081.03	5,341.40	5,224.05	117.34	45.519	
13,200.00	7,870.00	15,134.00	7,566.57	77.99	139.08	-85.72	1,823.32	4,081.03	5,432.96	5,316.11	116.86	46.493	
13,300.00	7,870.00	15,134.00	7,566.57	79.51	139.08	-85.72	1,823.32	4,081.03	5,524.82	5,408.44	116.38	47.470	
13,400.00	7,870.00	15,134.00	7,566.57	81.05	139.08	-85.72	1,823.32	4,081.03	5,616.96	5,501.03	115.93	48.451	
13,500.00	7,870.00	15,134.00	7,566.57	82.59	139.08	-85.72	1,823.32	4,081.03	5,709.37	5,593.87	115.49	49.435	
13,600.00	7,870.00	15,134.00	7,566.57	84.14	139.08	-85.72	1,823.32	4,081.03	5,802.02	5,686.95	115.07	50.421	
13,700.00	7,870.00	15,134.00	7,566.57	85.70	139.08	-85.72	1,823.32	4,081.03	5,894.92	5,780.25	114.66	51.411	
13,800.00	7,870.00	15,134.00	7,566.57	87.26	139.08	-85.72	1,823.32	4,081.03	5,988.04	5,873.77	114.27	52.402	
13,900.00	7,870.00	15,134.00	7,566.57	88.83	139.08	-85.72	1,823.32	4,081.03	6,081.38	5,967.49	113.89	53.396	
14,000.00	7,870.00	15,134.00	7,566.57	90.41	139.08	-85.72	1,823.32	4,081.03	6,174.93	6,061.41	113.53	54.392	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	15,134.00	7,566.57	92.00	139.08	-85.72	1,823.32	4,081.03	6,268.68	6,155.51	113.17	55.390	
14,200.00	7,870.00	15,134.00	7,566.57	93.59	139.08	-85.72	1,823.32	4,081.03	6,362.63	6,249.79	112.83	56.389	
14,300.00	7,870.00	15,134.00	7,566.57	95.18	139.08	-85.72	1,823.32	4,081.03	6,456.75	6,344.24	112.51	57.390	
14,400.00	7,870.00	15,134.00	7,566.57	96.79	139.08	-85.72	1,823.32	4,081.03	6,551.04	6,438.85	112.19	58.392	
14,500.00	7,870.00	15,134.00	7,566.57	98.39	139.08	-85.72	1,823.32	4,081.03	6,645.51	6,533.62	111.88	59.396	
14,600.00	7,870.00	15,134.00	7,566.57	100.00	139.08	-85.72	1,823.32	4,081.03	6,740.13	6,628.54	111.59	60.401	
14,700.00	7,870.00	15,134.00	7,566.57	101.62	139.08	-85.72	1,823.32	4,081.03	6,834.91	6,723.60	111.31	61.406	
14,800.00	7,870.00	15,134.00	7,566.57	103.24	139.08	-85.72	1,823.32	4,081.03	6,929.83	6,818.80	111.03	62.412	
14,900.00	7,870.00	15,134.00	7,566.57	104.87	139.08	-85.72	1,823.32	4,081.03	7,024.89	6,914.13	110.77	63.419	
15,000.00	7,870.00	15,134.00	7,566.57	106.50	139.08	-85.72	1,823.32	4,081.03	7,120.09	7,009.58	110.51	64.427	
15,100.00	7,870.00	15,134.00	7,566.57	108.13	139.08	-85.72	1,823.32	4,081.03	7,215.42	7,105.15	110.27	65.435	
15,200.00	7,870.00	15,134.00	7,566.57	109.77	139.08	-85.72	1,823.32	4,081.03	7,310.88	7,200.84	110.03	66.443	
15,300.00	7,870.00	15,134.00	7,566.57	111.41	139.08	-85.72	1,823.32	4,081.03	7,406.45	7,296.65	109.80	67.452	
15,400.00	7,870.00	15,134.00	7,566.57	113.05	139.08	-85.72	1,823.32	4,081.03	7,502.14	7,392.56	109.58	68.461	
15,500.00	7,870.00	15,134.00	7,566.57	114.70	139.08	-85.72	1,823.32	4,081.03	7,597.94	7,488.57	109.37	69.470	
15,600.00	7,870.00	15,134.00	7,566.57	116.35	139.08	-85.72	1,823.32	4,081.03	7,693.85	7,584.68	109.17	70.478	
15,700.00	7,870.00	15,134.00	7,566.57	118.00	139.08	-85.72	1,823.32	4,081.03	7,789.86	7,680.89	108.97	71.487	
15,800.00	7,870.00	15,134.00	7,566.57	119.66	139.08	-85.72	1,823.32	4,081.03	7,885.97	7,777.19	108.78	72.496	
15,900.00	7,870.00	15,134.00	7,566.57	121.32	139.08	-85.72	1,823.32	4,081.03	7,982.17	7,873.58	108.60	73.504	
16,000.00	7,870.00	15,134.00	7,566.57	122.98	139.08	-85.72	1,823.32	4,081.03	8,078.47	7,970.05	108.42	74.512	
16,100.00	7,870.00	15,134.00	7,566.57	124.65	139.08	-85.72	1,823.32	4,081.03	8,174.85	8,066.60	108.25	75.519	
16,200.00	7,870.00	15,134.00	7,566.57	126.32	139.08	-85.72	1,823.32	4,081.03	8,271.33	8,163.24	108.08	76.526	
16,300.00	7,870.00	15,134.00	7,566.57	127.99	139.08	-85.72	1,823.32	4,081.03	8,367.88	8,259.95	107.93	77.533	
16,400.00	7,870.00	15,134.00	7,566.57	129.66	139.08	-85.72	1,823.32	4,081.03	8,464.51	8,356.74	107.77	78.539	
16,500.00	7,870.00	15,134.00	7,566.57	131.33	139.08	-85.72	1,823.32	4,081.03	8,561.23	8,453.60	107.63	79.544	
16,600.00	7,870.00	15,134.00	7,566.57	133.01	139.08	-85.72	1,823.32	4,081.03	8,658.01	8,550.53	107.49	80.549	
16,700.00	7,870.00	15,134.00	7,566.57	134.69	139.08	-85.72	1,823.32	4,081.03	8,754.87	8,647.52	107.35	81.553	
16,800.00	7,870.00	15,134.00	7,566.57	136.37	139.08	-85.72	1,823.32	4,081.03	8,851.80	8,744.58	107.22	82.556	
16,900.00	7,870.00	15,134.00	7,566.57	138.06	139.08	-85.72	1,823.32	4,081.03	8,948.80	8,841.70	107.10	83.559	
17,000.00	7,870.00	15,134.00	7,566.57	139.74	139.08	-85.72	1,823.32	4,081.03	9,045.86	8,938.88	106.98	84.560	
17,100.00	7,870.00	15,134.00	7,566.57	141.43	139.08	-85.72	1,823.32	4,081.03	9,142.98	9,036.12	106.86	85.561	
17,200.00	7,870.00	15,134.00	7,566.57	143.12	139.08	-85.72	1,823.32	4,081.03	9,240.17	9,133.42	106.75	86.561	
17,300.00	7,870.00	15,134.00	7,566.57	144.81	139.08	-85.72	1,823.32	4,081.03	9,337.42	9,230.77	106.64	87.559	
17,400.00	7,870.00	15,134.00	7,566.57	146.50	139.08	-85.72	1,823.32	4,081.03	9,434.72	9,328.18	106.54	88.557	
17,500.00	7,870.00	15,134.00	7,566.57	148.19	139.08	-85.72	1,823.32	4,081.03	9,532.08	9,425.64	106.44	89.554	
17,600.00	7,870.00	15,134.00	7,566.57	149.89	139.08	-85.72	1,823.32	4,081.03	9,629.49	9,523.15	106.34	90.550	
17,700.00	7,870.00	15,134.00	7,566.57	151.59	139.08	-85.72	1,823.32	4,081.03	9,726.96	9,620.70	106.25	91.544	
17,800.00	7,870.00	15,134.00	7,566.57	153.29	139.08	-85.72	1,823.32	4,081.03	9,824.47	9,718.31	106.17	92.538	
17,900.00	7,870.00	15,134.00	7,566.57	154.99	139.08	-85.72	1,823.32	4,081.03	9,922.04	9,815.96	106.08	93.530	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	15,352.00	7,829.29	0.00	138.31	71.55	1,855.18	5,559.84	9,880.50				
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.55	1,855.18	5,559.84	9,800.18	9,705.57	94.61	103.586	
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.55	1,855.18	5,559.84	9,720.22	9,625.16	95.05	102.261	
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.55	1,855.18	5,559.84	9,640.63	9,545.10	95.53	100.913	
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.55	1,855.18	5,559.84	9,561.43	9,465.38	96.05	99.548	
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.55	1,855.18	5,559.84	9,482.62	9,386.02	96.60	98.167	
600.00	600.00	15,352.00	7,829.29	1.93	138.31	71.55	1,855.18	5,559.84	9,404.21	9,307.03	97.18	96.776	
700.00	700.00	15,352.00	7,829.29	2.29	138.31	71.55	1,855.18	5,559.84	9,326.22	9,228.44	97.78	95.378	
800.00	800.00	15,352.00	7,829.29	2.64	138.31	71.55	1,855.18	5,559.84	9,248.65	9,150.23	98.41	93.978	
900.00	900.00	15,352.00	7,829.29	3.00	138.31	71.55	1,855.18	5,559.84	9,171.51	9,072.44	99.07	92.580	
1,000.00	1,000.00	15,352.00	7,829.29	3.36	138.31	71.55	1,855.18	5,559.84	9,094.82	8,995.08	99.74	91.185	
1,100.00	1,100.00	15,352.00	7,829.29	3.72	138.31	71.55	1,855.18	5,559.84	9,018.59	8,918.15	100.43	89.796	
1,200.00	1,200.00	15,352.00	7,829.29	4.08	138.31	71.55	1,855.18	5,559.84	8,942.82	8,841.67	101.14	88.416	
1,300.00	1,300.00	15,352.00	7,829.29	4.44	138.31	71.55	1,855.18	5,559.84	8,867.53	8,765.66	101.87	87.045	
1,400.00	1,399.98	15,352.00	7,829.29	4.79	138.31	29.74	1,855.18	5,559.84	8,791.74	8,689.12	102.62	85.676	
1,500.00	1,499.84	15,352.00	7,829.29	5.15	138.31	30.97	1,855.18	5,559.84	8,714.46	8,611.09	103.36	84.308	
1,600.00	1,599.45	15,352.00	7,829.29	5.51	138.31	32.31	1,855.18	5,559.84	8,635.76	8,531.65	104.11	82.950	
1,700.00	1,698.70	15,352.00	7,829.29	5.87	138.31	33.76	1,855.18	5,559.84	8,555.69	8,450.85	104.84	81.604	
1,800.00	1,797.47	15,352.00	7,829.29	6.24	138.31	35.35	1,855.18	5,559.84	8,474.32	8,368.74	105.57	80.270	
1,900.00	1,895.62	15,352.00	7,829.29	6.63	138.31	37.08	1,855.18	5,559.84	8,391.70	8,285.41	106.30	78.946	
2,000.00	1,993.06	15,352.00	7,829.29	7.04	138.31	38.98	1,855.18	5,559.84	8,307.91	8,200.90	107.01	77.634	
2,100.00	2,089.64	15,352.00	7,829.29	7.48	138.31	41.04	1,855.18	5,559.84	8,223.01	8,115.28	107.73	76.332	
2,200.00	2,185.27	15,352.00	7,829.29	7.94	138.31	43.30	1,855.18	5,559.84	8,137.07	8,028.63	108.43	75.042	
2,300.00	2,279.82	15,352.00	7,829.29	8.45	138.31	45.76	1,855.18	5,559.84	8,050.16	7,941.02	109.14	73.761	
2,400.00	2,373.17	15,352.00	7,829.29	8.99	138.31	48.45	1,855.18	5,559.84	7,962.36	7,852.52	109.84	72.491	
2,500.00	2,465.21	15,352.00	7,829.29	9.58	138.31	51.38	1,855.18	5,559.84	7,873.75	7,763.21	110.54	71.231	
2,574.08	2,532.50	15,352.00	7,829.29	10.04	138.31	53.70	1,855.18	5,559.84	7,807.63	7,696.57	111.06	70.304	
2,600.00	2,555.89	15,352.00	7,829.29	10.21	138.31	53.70	1,855.18	5,559.84	7,784.44	7,673.20	111.24	69.980	
2,700.00	2,646.16	15,352.00	7,829.29	10.88	138.31	53.70	1,855.18	5,559.84	7,695.13	7,583.18	111.95	68.738	
2,800.00	2,736.44	15,352.00	7,829.29	11.57	138.31	53.70	1,855.18	5,559.84	7,606.08	7,493.40	112.68	67.501	
2,900.00	2,826.71	15,352.00	7,829.29	12.27	138.31	53.70	1,855.18	5,559.84	7,517.32	7,403.88	113.44	66.268	
3,000.00	2,916.98	15,352.00	7,829.29	13.00	138.31	53.70	1,855.18	5,559.84	7,428.83	7,314.61	114.22	65.040	
3,100.00	3,007.25	15,352.00	7,829.29	13.73	138.31	53.70	1,855.18	5,559.84	7,340.64	7,225.62	115.02	63.819	
3,200.00	3,097.52	15,352.00	7,829.29	14.48	138.31	53.70	1,855.18	5,559.84	7,252.76	7,136.91	115.85	62.605	
3,300.00	3,187.80	15,352.00	7,829.29	15.23	138.31	53.70	1,855.18	5,559.84	7,165.20	7,048.50	116.70	61.398	
3,400.00	3,278.07	15,352.00	7,829.29	15.99	138.31	53.70	1,855.18	5,559.84	7,077.97	6,960.39	117.57	60.200	
3,500.00	3,368.34	15,352.00	7,829.29	16.76	138.31	53.70	1,855.18	5,559.84	6,991.08	6,872.60	118.47	59.010	
3,600.00	3,458.61	15,352.00	7,829.29	17.54	138.31	53.70	1,855.18	5,559.84	6,904.54	6,785.14	119.39	57.830	
3,700.00	3,548.89	15,352.00	7,829.29	18.32	138.31	53.70	1,855.18	5,559.84	6,818.37	6,698.03	120.34	56.660	
3,800.00	3,639.16	15,352.00	7,829.29	19.10	138.31	53.70	1,855.18	5,559.84	6,732.58	6,611.28	121.31	55.500	
3,900.00	3,729.43	15,352.00	7,829.29	19.89	138.31	53.70	1,855.18	5,559.84	6,647.19	6,524.89	122.30	54.351	
4,000.00	3,819.70	15,352.00	7,829.29	20.69	138.31	53.70	1,855.18	5,559.84	6,562.22	6,438.90	123.32	53.214	
4,100.00	3,909.98	15,352.00	7,829.29	21.48	138.31	53.70	1,855.18	5,559.84	6,477.67	6,353.31	124.36	52.088	
4,200.00	4,000.25	15,352.00	7,829.29	22.28	138.31	53.70	1,855.18	5,559.84	6,393.57	6,268.14	125.43	50.974	
4,300.00	4,090.52	15,352.00	7,829.29	23.08	138.31	53.70	1,855.18	5,559.84	6,309.93	6,183.41	126.52	49.873	
4,400.00	4,180.79	15,352.00	7,829.29	23.88	138.31	53.70	1,855.18	5,559.84	6,226.78	6,099.14	127.64	48.785	
4,500.00	4,271.06	15,352.00	7,829.29	24.69	138.31	53.70	1,855.18	5,559.84	6,144.13	6,015.35	128.78	47.711	
4,600.00	4,361.34	15,352.00	7,829.29	25.49	138.31	53.70	1,855.18	5,559.84	6,062.00	5,932.05	129.95	46.650	
4,700.00	4,451.61	15,352.00	7,829.29	26.30	138.31	53.70	1,855.18	5,559.84	5,980.41	5,849.27	131.14	45.603	
4,800.00	4,541.88	15,352.00	7,829.29	27.11	138.31	53.70	1,855.18	5,559.84	5,899.39	5,767.03	132.36	44.571	
4,900.00	4,632.15	15,352.00	7,829.29	27.92	138.31	53.70	1,855.18	5,559.84	5,818.97	5,685.36	133.61	43.553	
5,000.00	4,722.43	15,352.00	7,829.29	28.74	138.31	53.70	1,855.18	5,559.84	5,739.15	5,604.27	134.88	42.550	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 16-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	15,352.00	7,829.29	29.55	138.31	53.70	1,855.18	5,559.84	5,659.98	5,523.80	136.18	41.563	
5,200.00	4,902.97	15,352.00	7,829.29	30.37	138.31	53.70	1,855.18	5,559.84	5,581.48	5,443.98	137.50	40.592	
5,300.00	4,993.24	15,352.00	7,829.29	31.18	138.31	53.70	1,855.18	5,559.84	5,503.67	5,364.82	138.85	39.637	
5,400.00	5,083.51	15,352.00	7,829.29	32.00	138.31	53.70	1,855.18	5,559.84	5,426.60	5,286.37	140.23	38.698	
5,500.00	5,173.79	15,352.00	7,829.29	32.82	138.31	53.70	1,855.18	5,559.84	5,350.28	5,208.64	141.63	37.776	
5,600.00	5,264.06	15,352.00	7,829.29	33.63	138.31	53.70	1,855.18	5,559.84	5,274.75	5,131.69	143.06	36.871	
5,700.00	5,354.33	15,352.00	7,829.29	34.45	138.31	53.70	1,855.18	5,559.84	5,200.05	5,055.53	144.51	35.983	
5,800.00	5,444.60	15,352.00	7,829.29	35.27	138.31	53.70	1,855.18	5,559.84	5,126.21	4,980.22	145.99	35.113	
5,900.00	5,534.88	15,352.00	7,829.29	36.09	138.31	53.70	1,855.18	5,559.84	5,053.27	4,905.78	147.49	34.261	
6,000.00	5,625.15	15,352.00	7,829.29	36.91	138.31	53.70	1,855.18	5,559.84	4,981.27	4,832.25	149.02	33.427	
6,100.00	5,715.42	15,352.00	7,829.29	37.74	138.31	53.70	1,855.18	5,559.84	4,910.25	4,759.69	150.56	32.612	
6,200.00	5,805.69	15,352.00	7,829.29	38.56	138.31	53.70	1,855.18	5,559.84	4,840.26	4,688.13	152.13	31.816	
6,300.00	5,895.96	15,352.00	7,829.29	39.38	138.31	53.70	1,855.18	5,559.84	4,771.33	4,617.61	153.72	31.040	
6,400.00	5,986.24	15,352.00	7,829.29	40.20	138.31	53.70	1,855.18	5,559.84	4,703.52	4,548.20	155.32	30.283	
6,500.00	6,076.51	15,352.00	7,829.29	41.03	138.31	53.70	1,855.18	5,559.84	4,636.88	4,479.94	156.94	29.545	
6,600.00	6,166.78	15,352.00	7,829.29	41.85	138.31	53.70	1,855.18	5,559.84	4,571.45	4,412.87	158.57	28.828	
6,700.00	6,257.05	15,352.00	7,829.29	42.67	138.31	53.70	1,855.18	5,559.84	4,507.29	4,347.07	160.22	28.132	
6,800.00	6,347.33	15,352.00	7,829.29	43.50	138.31	53.70	1,855.18	5,559.84	4,444.45	4,282.58	161.87	27.456	
6,900.00	6,437.60	15,352.00	7,829.29	44.32	138.31	53.70	1,855.18	5,559.84	4,383.00	4,219.47	163.53	26.802	
7,000.00	6,527.87	15,352.00	7,829.29	45.15	138.31	53.70	1,855.18	5,559.84	4,322.99	4,157.79	165.19	26.169	
7,100.00	6,618.14	15,352.00	7,829.29	45.98	138.31	53.70	1,855.18	5,559.84	4,264.47	4,097.62	166.85	25.558	
7,200.00	6,708.41	15,352.00	7,829.29	46.80	138.31	53.70	1,855.18	5,559.84	4,207.52	4,039.01	168.51	24.969	
7,300.00	6,798.69	15,352.00	7,829.29	47.63	138.31	53.70	1,855.18	5,559.84	4,152.20	3,982.05	170.15	24.403	
7,400.00	6,888.96	15,352.00	7,829.29	48.45	138.31	53.70	1,855.18	5,559.84	4,098.57	3,926.79	171.78	23.859	
7,500.00	6,979.23	15,352.00	7,829.29	49.28	138.31	53.70	1,855.18	5,559.84	4,046.70	3,873.31	173.39	23.338	
7,600.00	7,069.50	15,352.00	7,829.29	50.11	138.31	53.70	1,855.18	5,559.84	3,996.66	3,821.68	174.98	22.841	
7,692.09	7,152.63	15,352.00	7,829.29	50.87	138.31	53.70	1,855.18	5,559.84	3,952.26	3,775.85	176.41	22.404	
7,700.00	7,159.79	15,352.00	7,829.29	50.93	138.31	52.07	1,855.18	5,559.84	3,948.51	3,771.98	176.53	22.367	
7,750.00	7,205.70	15,352.00	7,829.29	51.32	138.31	40.34	1,855.18	5,559.84	3,924.81	3,747.56	177.25	22.143	
7,800.00	7,252.52	15,354.07	7,829.34	51.66	138.34	25.96	1,853.11	5,559.84	3,901.18	3,723.25	177.93	21.925	
7,850.00	7,299.89	15,350.70	7,829.26	51.96	138.28	9.02	1,856.48	5,559.85	3,877.80	3,699.41	178.39	21.738	
7,900.00	7,347.44	15,351.69	7,829.28	52.20	138.30	-8.91	1,855.50	5,559.84	3,854.87	3,676.01	178.85	21.553	
7,950.00	7,394.83	15,357.02	7,829.40	52.39	138.39	-25.65	1,850.16	5,559.84	3,832.55	3,653.23	179.32	21.373	
8,000.00	7,441.68	15,352.00	7,829.29	52.53	138.31	-39.99	1,855.18	5,559.84	3,811.05	3,631.61	179.44	21.238	
8,050.00	7,487.65	15,352.00	7,829.29	52.62	138.31	-51.40	1,855.18	5,559.84	3,790.53	3,610.94	179.58	21.107	
8,100.00	7,532.37	15,352.00	7,829.29	52.67	138.31	-60.41	1,855.18	5,559.84	3,771.17	3,591.54	179.63	20.994	
8,150.00	7,575.52	15,352.00	7,829.29	52.67	138.31	-67.53	1,855.18	5,559.84	3,753.13	3,573.56	179.57	20.900	
8,200.00	7,616.76	15,352.00	7,829.29	52.63	138.31	-73.23	1,855.18	5,559.84	3,736.57	3,557.15	179.43	20.825	
8,250.00	7,655.77	15,352.00	7,829.29	52.55	138.31	-77.82	1,855.18	5,559.84	3,721.65	3,542.46	179.19	20.770	
8,300.00	7,692.27	15,352.00	7,829.29	52.44	138.31	-81.54	1,855.18	5,559.84	3,708.48	3,529.62	178.86	20.734	
8,350.00	7,725.97	15,352.00	7,829.29	52.29	138.31	-84.55	1,855.18	5,559.84	3,697.20	3,518.74	178.46	20.717	SF
8,400.00	7,756.62	15,352.00	7,829.29	52.12	138.31	-86.96	1,855.18	5,559.84	3,687.91	3,509.93	177.98	20.721	
8,450.00	7,783.98	15,352.00	7,829.29	51.92	138.31	-88.86	1,855.18	5,559.84	3,680.68	3,503.24	177.44	20.743	
8,500.00	7,807.85	15,352.00	7,829.29	51.70	138.31	-90.29	1,855.18	5,559.84	3,675.60	3,498.75	176.84	20.785	
8,550.00	7,828.05	15,352.00	7,829.29	51.45	138.31	-91.31	1,855.18	5,559.84	3,672.70	3,496.50	176.20	20.844	
8,590.41	7,841.57	15,352.00	7,829.29	51.24	138.31	-91.85	1,855.18	5,559.84	3,671.97	3,496.32	175.65	20.905	CC, ES
8,600.00	7,844.41	15,352.00	7,829.29	51.20	138.31	-91.94	1,855.18	5,559.84	3,672.01	3,496.50	175.52	20.921	
8,650.00	7,856.82	15,352.00	7,829.29	50.93	138.31	-92.20	1,855.18	5,559.84	3,673.55	3,498.74	174.81	21.014	
8,700.00	7,865.18	15,352.00	7,829.29	50.65	138.31	-92.12	1,855.18	5,559.84	3,677.29	3,503.20	174.09	21.123	
8,750.00	7,869.43	15,352.00	7,829.29	50.36	138.31	-91.69	1,855.18	5,559.84	3,683.20	3,509.85	173.35	21.247	
8,776.25	7,870.00	15,352.00	7,829.29	50.21	138.31	-91.33	1,855.18	5,559.84	3,687.16	3,514.19	172.97	21.317	
8,800.00	7,870.00	15,352.00	7,829.29	50.08	138.31	-91.33	1,855.18	5,559.84	3,691.07	3,518.45	172.62	21.383	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 16-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	15,352.00	7,829.29	49.53	138.31	-91.33	1,855.18	5,559.84	3,709.18	3,537.98	171.20	21.666	
9,000.00	7,870.00	15,352.00	7,829.29	49.01	138.31	-91.33	1,855.18	5,559.84	3,729.87	3,560.01	169.86	21.958	
9,100.00	7,870.00	15,352.00	7,829.29	48.52	138.31	-91.33	1,855.18	5,559.84	3,753.12	3,584.51	168.61	22.259	
9,200.00	7,870.00	15,352.00	7,829.29	48.06	138.31	-91.33	1,855.18	5,559.84	3,778.87	3,611.41	167.46	22.566	
9,300.00	7,870.00	15,352.00	7,829.29	47.63	138.31	-91.33	1,855.18	5,559.84	3,807.08	3,640.68	166.40	22.879	
9,400.00	7,870.00	15,352.00	7,829.29	47.22	138.31	-91.33	1,855.18	5,559.84	3,837.69	3,672.24	165.44	23.196	
9,500.00	7,870.00	15,352.00	7,829.29	46.83	138.31	-91.33	1,855.18	5,559.84	3,870.63	3,706.05	164.58	23.519	
9,600.00	7,870.00	15,352.00	7,829.29	46.48	138.31	-91.33	1,855.18	5,559.84	3,905.86	3,742.06	163.80	23.846	
9,700.00	7,870.00	15,352.00	7,829.29	46.14	138.31	-91.33	1,855.18	5,559.84	3,943.31	3,780.22	163.10	24.178	
9,800.00	7,870.00	15,352.00	7,829.29	45.83	138.31	-91.33	1,855.18	5,559.84	3,982.93	3,820.46	162.47	24.515	
9,900.00	7,870.00	15,352.00	7,829.29	45.54	138.31	-91.33	1,855.18	5,559.84	4,024.63	3,862.73	161.90	24.859	
10,000.00	7,870.00	15,352.00	7,829.29	45.27	138.31	-91.33	1,855.18	5,559.84	4,068.37	3,906.98	161.38	25.209	
10,100.00	7,870.00	15,352.00	7,829.29	45.03	138.31	-91.33	1,855.18	5,559.84	4,114.07	3,953.16	160.91	25.567	
10,200.00	7,870.00	15,352.00	7,829.29	44.82	138.31	-91.33	1,855.18	5,559.84	4,161.68	4,001.20	160.47	25.934	
10,300.00	7,870.00	15,352.00	7,829.29	44.66	138.31	-91.33	1,855.18	5,559.84	4,211.12	4,051.06	160.06	26.309	
10,400.00	7,870.00	15,352.00	7,829.29	44.56	138.31	-91.33	1,855.18	5,559.84	4,262.33	4,102.66	159.68	26.694	
10,500.00	7,870.00	15,352.00	7,829.29	44.58	138.31	-91.33	1,855.18	5,559.84	4,315.26	4,155.96	159.30	27.088	
10,600.00	7,870.00	15,352.00	7,829.29	44.82	138.31	-91.33	1,855.18	5,559.84	4,369.83	4,210.89	158.94	27.493	
10,700.00	7,870.00	15,352.00	7,829.29	45.36	138.31	-91.33	1,855.18	5,559.84	4,425.99	4,267.40	158.59	27.909	
10,800.00	7,870.00	15,352.00	7,829.29	46.15	138.31	-91.33	1,855.18	5,559.84	4,483.68	4,325.44	158.24	28.335	
10,900.00	7,870.00	15,352.00	7,829.29	47.09	138.31	-91.33	1,855.18	5,559.84	4,542.83	4,384.94	157.89	28.772	
11,000.00	7,870.00	15,352.00	7,829.29	48.13	138.31	-91.33	1,855.18	5,559.84	4,603.40	4,445.86	157.54	29.220	
11,100.00	7,870.00	15,352.00	7,829.29	49.22	138.31	-91.33	1,855.18	5,559.84	4,665.33	4,508.13	157.19	29.679	
11,200.00	7,870.00	15,352.00	7,829.29	50.37	138.31	-91.33	1,855.18	5,559.84	4,728.55	4,571.71	156.84	30.148	
11,300.00	7,870.00	15,352.00	7,829.29	51.55	138.31	-91.33	1,855.18	5,559.84	4,793.04	4,636.54	156.49	30.628	
11,400.00	7,870.00	15,352.00	7,829.29	52.76	138.31	-91.33	1,855.18	5,559.84	4,858.72	4,702.58	156.14	31.119	
11,500.00	7,870.00	15,352.00	7,829.29	54.00	138.31	-91.33	1,855.18	5,559.84	4,925.56	4,769.78	155.78	31.620	
11,600.00	7,870.00	15,352.00	7,829.29	55.27	138.31	-91.33	1,855.18	5,559.84	4,993.51	4,838.09	155.41	32.130	
11,700.00	7,870.00	15,352.00	7,829.29	56.56	138.31	-91.33	1,855.18	5,559.84	5,062.52	4,907.47	155.05	32.651	
11,800.00	7,870.00	15,352.00	7,829.29	57.88	138.31	-91.33	1,855.18	5,559.84	5,132.55	4,977.87	154.68	33.182	
11,900.00	7,870.00	15,352.00	7,829.29	59.21	138.31	-91.33	1,855.18	5,559.84	5,203.56	5,049.25	154.31	33.722	
12,000.00	7,870.00	15,352.00	7,829.29	60.57	138.31	-91.33	1,855.18	5,559.84	5,275.51	5,121.57	153.94	34.271	
12,100.00	7,870.00	15,352.00	7,829.29	61.94	138.31	-91.33	1,855.18	5,559.84	5,348.36	5,194.79	153.56	34.828	
12,200.00	7,870.00	15,352.00	7,829.29	63.33	138.31	-91.33	1,855.18	5,559.84	5,422.07	5,268.89	153.19	35.395	
12,300.00	7,870.00	15,352.00	7,829.29	64.74	138.31	-91.33	1,855.18	5,559.84	5,496.62	5,343.81	152.81	35.970	
12,400.00	7,870.00	15,352.00	7,829.29	66.16	138.31	-91.33	1,855.18	5,559.84	5,571.97	5,419.53	152.44	36.553	
12,500.00	7,870.00	15,352.00	7,829.29	67.59	138.31	-91.33	1,855.18	5,559.84	5,648.08	5,496.02	152.06	37.144	
12,600.00	7,870.00	15,352.00	7,829.29	69.04	138.31	-91.33	1,855.18	5,559.84	5,724.92	5,573.24	151.68	37.743	
12,700.00	7,870.00	15,352.00	7,829.29	70.51	138.31	-91.33	1,855.18	5,559.84	5,802.48	5,651.17	151.31	38.349	
12,800.00	7,870.00	15,352.00	7,829.29	71.98	138.31	-91.33	1,855.18	5,559.84	5,880.71	5,729.77	150.94	38.962	
12,900.00	7,870.00	15,352.00	7,829.29	73.47	138.31	-91.33	1,855.18	5,559.84	5,959.59	5,809.02	150.56	39.582	
13,000.00	7,870.00	15,352.00	7,829.29	74.96	138.31	-91.33	1,855.18	5,559.84	6,039.09	5,888.90	150.19	40.208	
13,100.00	7,870.00	15,352.00	7,829.29	76.47	138.31	-91.33	1,855.18	5,559.84	6,119.20	5,969.37	149.83	40.842	
13,200.00	7,870.00	15,352.00	7,829.29	77.99	138.31	-91.33	1,855.18	5,559.84	6,199.88	6,050.42	149.46	41.481	
13,300.00	7,870.00	15,352.00	7,829.29	79.51	138.31	-91.33	1,855.18	5,559.84	6,281.12	6,132.02	149.10	42.126	
13,400.00	7,870.00	15,352.00	7,829.29	81.05	138.31	-91.33	1,855.18	5,559.84	6,362.90	6,214.16	148.74	42.777	
13,500.00	7,870.00	15,352.00	7,829.29	82.59	138.31	-91.33	1,855.18	5,559.84	6,445.19	6,296.80	148.39	43.434	
13,600.00	7,870.00	15,352.00	7,829.29	84.14	138.31	-91.33	1,855.18	5,559.84	6,527.97	6,379.93	148.04	44.096	
13,700.00	7,870.00	15,352.00	7,829.29	85.70	138.31	-91.33	1,855.18	5,559.84	6,611.23	6,463.54	147.69	44.764	
13,800.00	7,870.00	15,352.00	7,829.29	87.26	138.31	-91.33	1,855.18	5,559.84	6,694.95	6,547.60	147.35	45.436	
13,900.00	7,870.00	15,352.00	7,829.29	88.83	138.31	-91.33	1,855.18	5,559.84	6,779.11	6,632.10	147.01	46.113	
14,000.00	7,870.00	15,352.00	7,829.29	90.41	138.31	-91.33	1,855.18	5,559.84	6,863.69	6,717.02	146.68	46.795	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 16-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	15,352.00	7,829.29	92.00	138.31	-91.33	1,855.18	5,559.84	6,948.69	6,802.34	146.35	47.481	
14,200.00	7,870.00	15,352.00	7,829.29	93.59	138.31	-91.33	1,855.18	5,559.84	7,034.08	6,888.06	146.02	48.172	
14,300.00	7,870.00	15,352.00	7,829.29	95.18	138.31	-91.33	1,855.18	5,559.84	7,119.85	6,974.15	145.70	48.867	
14,400.00	7,870.00	15,352.00	7,829.29	96.79	138.31	-91.33	1,855.18	5,559.84	7,205.98	7,060.60	145.38	49.566	
14,500.00	7,870.00	15,352.00	7,829.29	98.39	138.31	-91.33	1,855.18	5,559.84	7,292.47	7,147.40	145.07	50.268	
14,600.00	7,870.00	15,352.00	7,829.29	100.00	138.31	-91.33	1,855.18	5,559.84	7,379.30	7,234.54	144.76	50.975	
14,700.00	7,870.00	15,352.00	7,829.29	101.62	138.31	-91.33	1,855.18	5,559.84	7,466.46	7,322.00	144.46	51.684	
14,800.00	7,870.00	15,352.00	7,829.29	103.24	138.31	-91.33	1,855.18	5,559.84	7,553.94	7,409.78	144.17	52.398	
14,900.00	7,870.00	15,352.00	7,829.29	104.87	138.31	-91.33	1,855.18	5,559.84	7,641.73	7,497.85	143.87	53.114	
15,000.00	7,870.00	15,352.00	7,829.29	106.50	138.31	-91.33	1,855.18	5,559.84	7,729.81	7,586.22	143.59	53.834	
15,100.00	7,870.00	15,352.00	7,829.29	108.13	138.31	-91.33	1,855.18	5,559.84	7,818.18	7,674.88	143.30	54.557	
15,200.00	7,870.00	15,352.00	7,829.29	109.77	138.31	-91.33	1,855.18	5,559.84	7,906.83	7,763.80	143.03	55.283	
15,300.00	7,870.00	15,352.00	7,829.29	111.41	138.31	-91.33	1,855.18	5,559.84	7,995.74	7,852.99	142.75	56.011	
15,400.00	7,870.00	15,352.00	7,829.29	113.05	138.31	-91.33	1,855.18	5,559.84	8,084.91	7,942.43	142.48	56.742	
15,500.00	7,870.00	15,352.00	7,829.29	114.70	138.31	-91.33	1,855.18	5,559.84	8,174.34	8,032.12	142.22	57.476	
15,600.00	7,870.00	15,352.00	7,829.29	116.35	138.31	-91.33	1,855.18	5,559.84	8,264.00	8,122.04	141.96	58.213	
15,700.00	7,870.00	15,352.00	7,829.29	118.00	138.31	-91.33	1,855.18	5,559.84	8,353.91	8,212.20	141.71	58.951	
15,800.00	7,870.00	15,352.00	7,829.29	119.66	138.31	-91.33	1,855.18	5,559.84	8,444.03	8,302.57	141.46	59.692	
15,900.00	7,870.00	15,352.00	7,829.29	121.32	138.31	-91.33	1,855.18	5,559.84	8,534.38	8,393.17	141.21	60.435	
16,000.00	7,870.00	15,352.00	7,829.29	122.98	138.31	-91.33	1,855.18	5,559.84	8,624.94	8,483.97	140.97	61.181	
16,100.00	7,870.00	15,352.00	7,829.29	124.65	138.31	-91.33	1,855.18	5,559.84	8,715.71	8,574.97	140.74	61.928	
16,200.00	7,870.00	15,352.00	7,829.29	126.32	138.31	-91.33	1,855.18	5,559.84	8,806.68	8,666.17	140.51	62.677	
16,300.00	7,870.00	15,352.00	7,829.29	127.99	138.31	-91.33	1,855.18	5,559.84	8,897.84	8,757.56	140.28	63.428	
16,400.00	7,870.00	15,352.00	7,829.29	129.66	138.31	-91.33	1,855.18	5,559.84	8,989.19	8,849.13	140.06	64.181	
16,500.00	7,870.00	15,352.00	7,829.29	131.33	138.31	-91.33	1,855.18	5,559.84	9,080.72	8,940.88	139.84	64.935	
16,600.00	7,870.00	15,352.00	7,829.29	133.01	138.31	-91.33	1,855.18	5,559.84	9,172.43	9,032.80	139.63	65.691	
16,700.00	7,870.00	15,352.00	7,829.29	134.69	138.31	-91.33	1,855.18	5,559.84	9,264.31	9,124.89	139.42	66.449	
16,800.00	7,870.00	15,352.00	7,829.29	136.37	138.31	-91.33	1,855.18	5,559.84	9,356.35	9,217.14	139.22	67.208	
16,900.00	7,870.00	15,352.00	7,829.29	138.06	138.31	-91.33	1,855.18	5,559.84	9,448.56	9,309.55	139.01	67.968	
17,000.00	7,870.00	15,352.00	7,829.29	139.74	138.31	-91.33	1,855.18	5,559.84	9,540.93	9,402.11	138.82	68.730	
17,100.00	7,870.00	15,352.00	7,829.29	141.43	138.31	-91.33	1,855.18	5,559.84	9,633.45	9,494.82	138.63	69.493	
17,200.00	7,870.00	15,352.00	7,829.29	143.12	138.31	-91.33	1,855.18	5,559.84	9,726.11	9,587.67	138.44	70.257	
17,300.00	7,870.00	15,352.00	7,829.29	144.81	138.31	-91.33	1,855.18	5,559.84	9,818.92	9,680.67	138.25	71.022	
17,400.00	7,870.00	15,352.00	7,829.29	146.50	138.31	-91.33	1,855.18	5,559.84	9,911.87	9,773.80	138.07	71.788	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.88	2,113.49	3,501.13	4,089.78				
100.00	100.00	50.43	50.43	0.13	0.09	58.88	2,113.49	3,501.17	4,089.64	4,089.41	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.89	2,113.50	3,501.72	4,090.26	4,089.41	0.85	4,799.655	
300.00	300.00	202.17	202.16	0.85	0.64	58.89	2,113.80	3,502.65	4,091.47	4,089.98	1.49	2,752.020	
400.00	400.00	304.35	304.33	1.21	1.00	58.89	2,114.62	3,503.91	4,092.95	4,090.74	2.21	1,851.843	
500.00	500.00	441.74	441.71	1.57	1.49	58.90	2,114.51	3,505.44	4,093.86	4,090.80	3.06	1,339.275	
600.00	600.00	536.80	536.76	1.93	1.83	58.92	2,113.82	3,506.45	4,094.39	4,090.63	3.75	1,091.079	
700.00	700.00	633.45	633.41	2.29	2.17	58.92	2,113.68	3,507.29	4,095.06	4,090.60	4.46	919.177	
800.00	800.00	778.22	778.17	2.64	2.67	58.91	2,114.38	3,507.01	4,095.12	4,089.81	5.31	771.404	
900.00	900.00	912.50	912.45	3.00	3.12	58.92	2,113.65	3,506.15	4,094.29	4,088.17	6.12	668.988	
1,000.00	1,000.00	995.96	995.90	3.36	3.40	58.92	2,113.15	3,505.35	4,093.18	4,086.42	6.76	605.215	
1,100.00	1,100.00	1,091.90	1,091.84	3.72	3.73	58.91	2,113.34	3,504.44	4,092.46	4,085.01	7.45	549.306	
1,200.00	1,200.00	1,211.41	1,211.34	4.08	4.14	58.90	2,113.37	3,503.09	4,091.52	4,083.30	8.22	497.718	
1,300.00	1,300.00	1,351.08	1,350.99	4.44	4.63	58.88	2,113.25	3,500.89	4,090.25	4,081.19	9.06	451.294	
1,400.00	1,399.98	1,420.61	1,420.50	4.79	4.87	15.95	2,113.32	3,499.11	4,086.54	4,076.87	9.66	422.897	
1,500.00	1,499.84	1,543.71	1,543.57	5.15	5.30	16.03	2,111.87	3,498.44	4,080.58	4,070.13	10.45	390.555	
1,600.00	1,599.45	1,848.99	1,847.49	5.51	6.39	16.53	2,084.43	3,497.11	4,066.28	4,054.41	11.87	342.608	
1,700.00	1,698.70	1,932.81	1,930.38	5.87	6.71	16.84	2,072.02	3,497.94	4,047.89	4,035.36	12.53	322.956	
1,800.00	1,797.47	2,043.06	2,038.96	6.24	7.13	17.30	2,053.09	3,500.23	4,026.04	4,012.73	13.30	302.603	
1,900.00	1,895.62	2,110.00	2,104.66	6.63	7.40	17.68	2,040.46	3,502.50	4,001.33	3,987.40	13.92	287.357	
2,000.00	1,993.06	2,177.10	2,170.43	7.04	7.67	18.11	2,027.50	3,505.46	3,974.17	3,959.62	14.55	273.077	
2,100.00	2,089.64	2,248.77	2,240.71	7.48	7.97	18.60	2,013.94	3,509.04	3,944.60	3,929.40	15.21	259.368	
2,200.00	2,185.27	2,385.69	2,375.14	7.94	8.54	19.41	1,988.71	3,515.36	3,912.15	3,896.02	16.13	242.546	
2,300.00	2,279.82	2,455.14	2,443.35	8.45	8.83	19.98	1,975.96	3,518.02	3,876.05	3,859.26	16.79	230.810	
2,400.00	2,373.17	2,600.75	2,586.31	8.99	9.46	21.00	1,948.74	3,522.86	3,836.51	3,818.73	17.77	215.868	
2,500.00	2,465.21	2,654.55	2,639.10	9.58	9.70	21.62	1,938.48	3,524.63	3,794.08	3,775.68	18.40	206.232	
2,574.08	2,532.50	2,694.71	2,678.54	10.04	9.88	22.12	1,931.08	3,526.14	3,761.36	3,742.49	18.87	199.347	
2,600.00	2,555.89	2,708.82	2,692.41	10.21	9.94	22.20	1,928.53	3,526.71	3,749.76	3,730.72	19.04	196.988	
2,700.00	2,646.16	2,770.11	2,752.70	10.88	10.21	22.55	1,917.83	3,529.34	3,705.54	3,685.84	19.71	188.035	
2,800.00	2,736.44	2,888.23	2,868.70	11.57	10.73	23.26	1,896.16	3,534.39	3,661.20	3,640.57	20.63	177.508	
2,900.00	2,826.71	2,978.75	2,957.68	12.27	11.14	23.81	1,879.89	3,537.77	3,616.91	3,595.46	21.45	168.633	
3,000.00	2,916.98	3,064.04	3,041.26	13.00	11.52	24.36	1,863.26	3,541.26	3,572.59	3,550.32	22.27	160.435	
3,100.00	3,007.25	3,122.02	3,098.12	13.73	11.79	24.74	1,852.25	3,543.82	3,529.01	3,506.01	22.99	153.486	
3,200.00	3,097.52	3,239.35	3,213.32	14.48	12.32	25.51	1,830.46	3,548.63	3,485.62	3,461.65	23.97	145.421	
3,300.00	3,187.80	3,307.00	3,279.84	15.23	12.63	25.95	1,818.43	3,550.98	3,442.35	3,417.60	24.75	139.060	
3,400.00	3,278.07	3,409.02	3,380.30	15.99	13.09	26.62	1,800.95	3,554.29	3,399.44	3,373.75	25.69	132.350	
3,500.00	3,368.34	3,519.78	3,489.05	16.76	13.60	27.40	1,780.28	3,557.73	3,356.21	3,329.54	26.67	125.830	
3,600.00	3,458.61	3,591.05	3,559.15	17.54	13.92	27.90	1,767.48	3,559.63	3,313.19	3,285.68	27.51	120.423	
3,700.00	3,548.89	3,650.65	3,617.89	18.32	14.19	28.31	1,757.58	3,561.17	3,270.90	3,242.58	28.32	115.511	
3,800.00	3,639.16	3,713.04	3,679.36	19.10	14.47	28.76	1,747.14	3,563.39	3,229.64	3,200.50	29.14	110.816	
3,900.00	3,729.43	3,800.05	3,765.02	19.89	14.87	29.40	1,732.25	3,566.82	3,188.94	3,158.86	30.08	105.999	
4,000.00	3,819.70	3,865.39	3,829.27	20.69	15.17	29.90	1,720.69	3,569.75	3,148.87	3,117.91	30.96	101.709	
4,100.00	3,909.98	4,014.03	3,975.13	21.48	15.86	31.09	1,692.73	3,575.47	3,108.25	3,076.07	32.19	96.566	
4,200.00	4,000.25	4,075.00	4,035.25	22.28	16.14	31.56	1,682.73	3,577.01	3,067.82	3,034.75	33.07	92.771	
4,300.00	4,090.52	4,136.25	4,095.79	23.08	16.41	32.02	1,673.58	3,578.76	3,028.43	2,994.48	33.95	89.197	
4,400.00	4,180.79	4,286.80	4,244.22	23.88	17.09	33.24	1,648.82	3,583.11	2,989.25	2,954.05	35.20	84.933	
4,500.00	4,271.06	4,370.94	4,326.93	24.69	17.48	33.96	1,633.52	3,584.75	2,949.15	2,912.93	36.22	81.428	
4,600.00	4,361.34	4,439.37	4,394.07	25.49	17.80	34.58	1,620.43	3,586.48	2,909.79	2,872.59	37.20	78.211	
4,700.00	4,451.61	4,526.27	4,479.20	26.30	18.22	35.39	1,603.14	3,589.10	2,871.18	2,832.89	38.29	74.987	
4,800.00	4,541.88	4,638.05	4,588.68	27.11	18.76	36.47	1,580.75	3,591.83	2,832.68	2,793.18	39.49	71.725	
4,900.00	4,632.15	4,698.34	4,647.77	27.92	19.05	37.05	1,568.86	3,593.14	2,794.59	2,754.09	40.50	68.998	
5,000.00	4,722.43	4,763.64	4,711.92	28.74	19.36	37.69	1,556.76	3,594.94	2,757.78	2,716.24	41.54	66.388	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,838.45	4,785.57	29.55	19.70	38.41	1,543.87	3,597.11	2,721.93	2,679.30	42.62	63.860	
5,200.00	4,902.97	4,910.90	4,856.93	30.37	20.04	39.11	1,531.53	3,599.47	2,687.00	2,643.29	43.71	61.474	
5,300.00	4,993.24	5,006.74	4,951.29	31.18	20.48	40.07	1,515.09	3,602.71	2,652.78	2,607.87	44.91	59.070	
5,400.00	5,083.51	5,093.57	5,036.94	32.00	20.87	40.94	1,501.04	3,605.18	2,618.89	2,572.81	46.08	56.836	
5,500.00	5,173.79	5,164.03	5,106.55	32.82	21.19	41.65	1,490.34	3,607.21	2,585.80	2,538.61	47.19	54.795	
5,600.00	5,264.06	5,230.95	5,172.63	33.63	21.48	42.33	1,480.03	3,609.66	2,553.97	2,505.66	48.30	52.872	
5,700.00	5,354.33	5,301.00	5,241.76	34.45	21.80	43.06	1,469.15	3,612.72	2,523.40	2,473.95	49.45	51.032	
5,800.00	5,444.60	5,403.62	5,342.98	35.27	22.26	44.16	1,452.85	3,617.19	2,493.51	2,442.76	50.75	49.134	
5,900.00	5,534.88	5,511.90	5,450.00	36.09	22.74	45.33	1,436.86	3,620.94	2,463.67	2,411.60	52.08	47.310	
6,000.00	5,625.15	5,610.43	5,547.44	36.91	23.18	46.40	1,422.47	3,623.37	2,433.69	2,380.32	53.37	45.598	
6,100.00	5,715.42	5,678.42	5,614.66	37.74	23.48	47.16	1,412.40	3,625.26	2,404.75	2,350.19	54.57	44.070	
6,200.00	5,805.69	5,750.29	5,685.68	38.56	23.80	47.98	1,401.67	3,627.73	2,377.16	2,321.37	55.79	42.609	
6,300.00	5,895.96	5,842.05	5,776.27	39.38	24.21	49.05	1,387.50	3,631.14	2,350.63	2,293.51	57.12	41.151	
6,400.00	5,986.24	5,930.37	5,863.47	40.20	24.60	50.11	1,373.79	3,634.09	2,324.63	2,266.18	58.45	39.771	
6,500.00	6,076.51	6,015.56	5,947.80	41.03	24.98	51.11	1,362.03	3,636.96	2,299.51	2,239.75	59.76	38.477	
6,600.00	6,166.78	6,095.97	6,027.29	41.85	25.33	52.08	1,350.30	3,639.72	2,275.35	2,214.28	61.07	37.256	
6,700.00	6,257.05	6,180.40	6,110.73	42.67	25.70	53.13	1,337.73	3,642.87	2,252.37	2,189.96	62.41	36.088	
6,800.00	6,347.33	6,277.56	6,206.99	43.50	26.12	54.31	1,324.99	3,646.22	2,229.97	2,166.16	63.81	34.949	
6,900.00	6,437.60	6,364.10	6,292.73	44.32	26.49	55.38	1,313.60	3,649.06	2,208.35	2,143.19	65.16	33.892	
7,000.00	6,527.87	6,453.36	6,381.21	45.15	26.87	56.50	1,302.16	3,651.99	2,187.65	2,121.13	66.53	32.884	
7,100.00	6,618.14	6,554.57	6,481.79	45.98	27.28	57.73	1,291.54	3,655.27	2,167.57	2,099.65	67.92	31.912	
7,200.00	6,708.41	6,668.88	6,595.58	46.80	27.73	59.11	1,280.90	3,658.10	2,147.57	2,078.21	69.36	30.963	
7,300.00	6,798.69	6,778.38	6,704.66	47.63	28.15	60.45	1,271.41	3,659.55	2,127.33	2,056.56	70.77	30.059	
7,400.00	6,888.96	6,877.75	6,803.79	48.45	28.51	61.65	1,264.77	3,660.55	2,107.35	2,035.22	72.13	29.217	
7,500.00	6,979.23	6,972.16	6,898.11	49.28	28.84	62.74	1,260.69	3,661.61	2,087.85	2,014.41	73.44	28.429	
7,600.00	7,069.50	7,066.74	6,992.65	50.11	29.16	63.82	1,258.24	3,662.88	2,068.95	1,994.22	74.74	27.683	
7,692.09	7,152.63	7,149.48	7,075.37	50.87	29.42	64.74	1,257.09	3,664.11	2,052.08	1,976.17	75.91	27.033	
7,700.00	7,159.79	7,156.41	7,082.30	50.93	29.44	63.47	1,257.03	3,664.23	2,050.65	1,974.64	76.01	26.979	
7,750.00	7,205.70	7,206.55	7,132.42	51.32	29.60	53.95	1,256.79	3,665.14	2,040.81	1,964.21	76.60	26.642	
7,800.00	7,252.52	7,272.94	7,198.81	51.66	29.79	41.58	1,257.01	3,666.04	2,029.31	1,952.18	77.13	26.311	
7,850.00	7,299.89	8,198.34	7,887.76	51.96	30.48	13.56	1,735.42	3,650.37	2,015.75	1,945.86	69.89	28.841	
7,900.00	7,347.44	8,207.88	7,889.36	52.20	30.48	-5.68	1,744.83	3,650.38	1,986.76	1,916.38	70.38	28.228	
7,950.00	7,394.83	8,211.66	7,889.97	52.39	30.48	-23.58	1,748.56	3,650.39	1,958.49	1,887.66	70.83	27.652	
8,000.00	7,441.68	8,210.56	7,889.79	52.53	30.48	-38.67	1,747.48	3,650.38	1,931.22	1,860.01	71.21	27.121	
8,050.00	7,487.65	8,205.33	7,888.95	52.62	30.48	-50.70	1,742.31	3,650.37	1,905.19	1,833.67	71.52	26.638	
8,100.00	7,532.37	8,196.58	7,887.46	52.67	30.48	-60.12	1,733.69	3,650.37	1,880.64	1,808.88	71.76	26.208	
8,150.00	7,575.52	8,184.85	7,885.32	52.67	30.47	-67.49	1,722.16	3,650.40	1,857.75	1,785.85	71.91	25.835	
8,200.00	7,616.76	8,180.00	7,884.39	52.63	30.47	-73.57	1,717.40	3,650.43	1,836.73	1,764.87	71.86	25.560	
8,250.00	7,655.77	8,161.84	7,880.61	52.55	30.47	-78.08	1,699.64	3,650.65	1,817.70	1,745.84	71.86	25.293	
8,300.00	7,692.27	8,148.83	7,877.61	52.44	30.47	-81.82	1,686.98	3,650.93	1,800.87	1,729.18	71.70	25.117	
8,350.00	7,725.97	8,138.02	7,874.93	52.29	30.47	-84.87	1,676.51	3,651.24	1,786.35	1,714.94	71.41	25.017	
8,400.00	7,756.62	8,092.52	7,861.73	52.12	30.48	-86.36	1,633.01	3,652.81	1,774.04	1,702.57	71.47	24.822	
8,450.00	7,783.98	8,064.22	7,851.95	51.92	30.48	-87.80	1,606.48	3,653.76	1,763.82	1,692.58	71.24	24.759	SF
8,500.00	7,807.85	8,039.00	7,842.29	51.70	30.49	-88.86	1,583.20	3,654.72	1,755.90	1,685.00	70.91	24.764	
8,550.00	7,828.05	8,016.09	7,832.69	51.45	30.50	-89.57	1,562.42	3,655.72	1,750.35	1,679.85	70.50	24.829	
8,600.00	7,844.41	7,997.24	7,824.17	51.20	30.51	-89.99	1,545.64	3,656.65	1,747.19	1,677.18	70.00	24.958	
8,650.00	7,856.82	7,947.86	7,798.97	50.93	30.54	-89.34	1,503.27	3,659.13	1,746.17	1,676.32	69.84	25.001	
8,653.47	7,857.53	7,943.36	7,796.46	50.91	30.54	-89.26	1,499.54	3,659.33	1,746.16	1,676.32	69.84	25.001	CC, ES
8,700.00	7,865.18	7,889.28	7,763.19	50.65	30.56	-88.13	1,456.98	3,661.12	1,746.83	1,677.11	69.72	25.054	
8,750.00	7,869.43	7,850.00	7,735.72	50.36	30.58	-87.05	1,428.94	3,661.72	1,749.16	1,679.79	69.37	25.215	
8,776.25	7,870.00	7,834.97	7,724.57	50.21	30.58	-86.50	1,418.87	3,661.85	1,751.16	1,682.03	69.13	25.332	
8,800.00	7,870.00	7,825.30	7,717.24	50.08	30.58	-86.26	1,412.56	3,661.95	1,753.35	1,684.47	68.88	25.453	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,789.99	7,689.50	49.53	30.58	-85.36	1,390.73	3,662.44	1,765.24	1,697.31	67.93	25.987	
9,000.00	7,870.00	7,755.00	7,660.55	49.01	30.57	-84.41	1,371.10	3,663.15	1,781.66	1,714.49	67.17	26.525	
9,100.00	7,870.00	7,738.05	7,646.07	48.52	30.56	-83.94	1,362.30	3,663.61	1,802.64	1,736.11	66.54	27.092	
9,200.00	7,870.00	7,710.00	7,621.56	48.06	30.55	-83.15	1,348.70	3,664.53	1,828.30	1,762.09	66.21	27.613	
9,300.00	7,870.00	7,694.67	7,607.91	47.63	30.54	-82.71	1,341.74	3,665.09	1,858.39	1,792.32	66.07	28.126	
9,400.00	7,870.00	7,672.91	7,588.28	47.22	30.53	-82.08	1,332.39	3,665.88	1,892.79	1,826.60	66.19	28.596	
9,500.00	7,870.00	7,645.22	7,562.89	46.83	30.50	-81.27	1,321.38	3,666.81	1,931.28	1,864.76	66.52	29.034	
9,600.00	7,870.00	7,614.00	7,533.83	46.48	30.47	-80.35	1,309.99	3,667.40	1,973.44	1,906.42	67.01	29.448	
9,700.00	7,870.00	7,592.56	7,513.64	46.14	30.45	-79.71	1,302.81	3,667.55	2,019.22	1,951.60	67.62	29.861	
9,800.00	7,870.00	7,567.00	7,489.30	45.83	30.42	-78.94	1,294.97	3,667.56	2,068.60	2,000.26	68.33	30.272	
9,900.00	7,870.00	7,567.00	7,489.30	45.54	30.42	-78.94	1,294.97	3,667.56	2,121.26	2,052.15	69.10	30.697	
10,000.00	7,870.00	7,551.99	7,474.90	45.27	30.40	-78.48	1,290.75	3,667.52	2,177.10	2,107.16	69.93	31.131	
10,100.00	7,870.00	7,542.45	7,465.71	45.03	30.38	-78.19	1,288.20	3,667.50	2,235.91	2,165.12	70.79	31.586	
10,200.00	7,870.00	7,520.00	7,443.95	44.82	30.35	-77.51	1,282.65	3,667.48	2,297.59	2,225.93	71.66	32.064	
10,300.00	7,870.00	7,520.00	7,443.95	44.66	30.35	-77.51	1,282.65	3,667.48	2,361.58	2,289.07	72.52	32.566	
10,400.00	7,870.00	7,520.00	7,443.95	44.56	30.35	-77.51	1,282.65	3,667.48	2,428.02	2,354.65	73.37	33.094	
10,500.00	7,870.00	7,520.00	7,443.95	44.58	30.35	-77.51	1,282.65	3,667.48	2,496.68	2,422.49	74.19	33.651	
10,600.00	7,870.00	7,520.00	7,443.95	44.82	30.35	-77.51	1,282.65	3,667.48	2,567.41	2,492.42	74.99	34.235	
10,700.00	7,870.00	7,499.84	7,424.30	45.36	30.32	-76.90	1,278.19	3,667.51	2,639.75	2,563.98	75.76	34.842	
10,800.00	7,870.00	7,494.47	7,419.04	46.15	30.31	-76.73	1,277.09	3,667.53	2,713.93	2,637.43	76.50	35.475	
10,900.00	7,870.00	7,473.00	7,397.96	47.09	30.27	-76.08	1,273.02	3,667.67	2,789.89	2,712.68	77.20	36.137	
11,000.00	7,870.00	7,473.00	7,397.96	48.13	30.27	-76.08	1,273.02	3,667.67	2,867.01	2,789.13	77.88	36.815	
11,100.00	7,870.00	7,473.00	7,397.96	49.22	30.27	-76.08	1,273.02	3,667.67	2,945.50	2,866.98	78.52	37.515	
11,200.00	7,870.00	7,473.00	7,397.96	50.37	30.27	-76.08	1,273.02	3,667.67	3,025.26	2,946.14	79.12	38.235	
11,300.00	7,870.00	7,473.00	7,397.96	51.55	30.27	-76.08	1,273.02	3,667.67	3,106.20	3,026.50	79.70	38.974	
11,400.00	7,870.00	7,473.00	7,397.96	52.76	30.27	-76.08	1,273.02	3,667.67	3,188.22	3,107.97	80.24	39.731	
11,500.00	7,870.00	7,473.00	7,397.96	54.00	30.27	-76.08	1,273.02	3,667.67	3,271.23	3,190.47	80.76	40.505	
11,600.00	7,870.00	7,455.73	7,380.93	55.27	30.24	-75.56	1,270.12	3,667.76	3,355.03	3,273.78	81.25	41.294	
11,700.00	7,870.00	7,451.10	7,376.36	56.56	30.23	-75.42	1,269.40	3,667.77	3,439.74	3,358.03	81.71	42.096	
11,800.00	7,870.00	7,446.74	7,372.05	57.88	30.22	-75.29	1,268.74	3,667.77	3,525.23	3,443.08	82.15	42.911	
11,900.00	7,870.00	7,442.62	7,367.98	59.21	30.21	-75.16	1,268.13	3,667.76	3,611.46	3,528.89	82.57	43.739	
12,000.00	7,870.00	7,426.00	7,351.51	60.57	30.18	-74.66	1,265.85	3,667.68	3,698.44	3,615.48	82.96	44.581	
12,100.00	7,870.00	7,426.00	7,351.51	61.94	30.18	-74.66	1,265.85	3,667.68	3,785.93	3,702.59	83.34	45.429	
12,200.00	7,870.00	7,426.00	7,351.51	63.33	30.18	-74.66	1,265.85	3,667.68	3,874.02	3,790.33	83.70	46.286	
12,300.00	7,870.00	7,426.00	7,351.51	64.74	30.18	-74.66	1,265.85	3,667.68	3,962.69	3,878.65	84.04	47.154	
12,400.00	7,870.00	7,426.00	7,351.51	66.16	30.18	-74.66	1,265.85	3,667.68	4,051.88	3,967.51	84.36	48.029	
12,500.00	7,870.00	7,426.00	7,351.51	67.59	30.18	-74.66	1,265.85	3,667.68	4,141.56	4,056.89	84.67	48.913	
12,600.00	7,870.00	7,426.00	7,351.51	69.04	30.18	-74.66	1,265.85	3,667.68	4,231.70	4,146.74	84.97	49.804	
12,700.00	7,870.00	7,426.00	7,351.51	70.51	30.18	-74.66	1,265.85	3,667.68	4,322.28	4,237.04	85.25	50.702	
12,800.00	7,870.00	7,426.00	7,351.51	71.98	30.18	-74.66	1,265.85	3,667.68	4,413.27	4,327.75	85.52	51.607	
12,900.00	7,870.00	7,426.00	7,351.51	73.47	30.18	-74.66	1,265.85	3,667.68	4,504.64	4,418.87	85.77	52.518	
13,000.00	7,870.00	7,426.00	7,351.51	74.96	30.18	-74.66	1,265.85	3,667.68	4,596.37	4,510.35	86.02	53.434	
13,100.00	7,870.00	7,426.00	7,351.51	76.47	30.18	-74.66	1,265.85	3,667.68	4,688.43	4,602.18	86.25	54.356	
13,200.00	7,870.00	7,426.00	7,351.51	77.99	30.18	-74.66	1,265.85	3,667.68	4,780.82	4,694.34	86.48	55.283	
13,300.00	7,870.00	7,406.35	7,332.00	79.51	30.13	-74.06	1,263.54	3,667.50	4,873.26	4,786.57	86.69	56.217	
13,400.00	7,870.00	7,404.64	7,330.30	81.05	30.13	-74.01	1,263.36	3,667.49	4,966.19	4,879.29	86.89	57.152	
13,500.00	7,870.00	7,403.00	7,328.67	82.59	30.12	-73.96	1,263.19	3,667.47	5,059.38	4,972.29	87.09	58.092	
13,600.00	7,870.00	7,401.42	7,327.09	84.14	30.12	-73.91	1,263.03	3,667.45	5,152.82	5,065.54	87.28	59.035	
13,700.00	7,870.00	7,399.89	7,325.57	85.70	30.12	-73.87	1,262.88	3,667.44	5,246.51	5,159.04	87.47	59.981	
13,800.00	7,870.00	7,398.41	7,324.11	87.26	30.11	-73.82	1,262.74	3,667.42	5,340.41	5,252.77	87.65	60.931	
13,900.00	7,870.00	7,379.00	7,304.77	88.83	30.07	-73.24	1,261.08	3,667.19	5,434.74	5,346.93	87.81	61.894	
14,000.00	7,870.00	7,379.00	7,304.77	90.41	30.07	-73.24	1,261.08	3,667.19	5,529.04	5,441.07	87.97	62.849	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,379.00	7,304.77	92.00	30.07	-73.24	1,261.08	3,667.19	5,623.53	5,535.40	88.13	63.806	
14,200.00	7,870.00	7,379.00	7,304.77	93.59	30.07	-73.24	1,261.08	3,667.19	5,718.22	5,629.93	88.29	64.767	
14,300.00	7,870.00	7,379.00	7,304.77	95.18	30.07	-73.24	1,261.08	3,667.19	5,813.08	5,724.64	88.44	65.729	
14,400.00	7,870.00	7,379.00	7,304.77	96.79	30.07	-73.24	1,261.08	3,667.19	5,908.11	5,819.52	88.59	66.694	
14,500.00	7,870.00	7,379.00	7,304.77	98.39	30.07	-73.24	1,261.08	3,667.19	6,003.30	5,914.57	88.73	67.660	
14,600.00	7,870.00	7,379.00	7,304.77	100.00	30.07	-73.24	1,261.08	3,667.19	6,098.64	6,009.78	88.86	68.629	
14,700.00	7,870.00	7,379.00	7,304.77	101.62	30.07	-73.24	1,261.08	3,667.19	6,194.13	6,105.14	89.00	69.600	
14,800.00	7,870.00	7,379.00	7,304.77	103.24	30.07	-73.24	1,261.08	3,667.19	6,289.77	6,200.64	89.13	70.572	
14,900.00	7,870.00	7,379.00	7,304.77	104.87	30.07	-73.24	1,261.08	3,667.19	6,385.53	6,296.28	89.25	71.545	
15,000.00	7,870.00	7,379.00	7,304.77	106.50	30.07	-73.24	1,261.08	3,667.19	6,481.43	6,392.05	89.37	72.520	
15,100.00	7,870.00	7,379.00	7,304.77	108.13	30.07	-73.24	1,261.08	3,667.19	6,577.44	6,487.95	89.49	73.496	
15,200.00	7,870.00	7,379.00	7,304.77	109.77	30.07	-73.24	1,261.08	3,667.19	6,673.58	6,583.97	89.61	74.474	
15,300.00	7,870.00	7,379.00	7,304.77	111.41	30.07	-73.24	1,261.08	3,667.19	6,769.82	6,680.10	89.72	75.452	
15,400.00	7,870.00	7,379.00	7,304.77	113.05	30.07	-73.24	1,261.08	3,667.19	6,866.17	6,776.34	89.83	76.432	
15,500.00	7,870.00	7,379.00	7,304.77	114.70	30.07	-73.24	1,261.08	3,667.19	6,962.63	6,872.69	89.94	77.412	
15,600.00	7,870.00	7,379.00	7,304.77	116.35	30.07	-73.24	1,261.08	3,667.19	7,059.18	6,969.13	90.05	78.394	
15,700.00	7,870.00	7,379.00	7,304.77	118.00	30.07	-73.24	1,261.08	3,667.19	7,155.83	7,065.68	90.15	79.376	
15,800.00	7,870.00	7,379.00	7,304.77	119.66	30.07	-73.24	1,261.08	3,667.19	7,252.57	7,162.32	90.25	80.358	
15,900.00	7,870.00	7,379.00	7,304.77	121.32	30.07	-73.24	1,261.08	3,667.19	7,349.40	7,259.04	90.35	81.342	
16,000.00	7,870.00	7,379.00	7,304.77	122.98	30.07	-73.24	1,261.08	3,667.19	7,446.31	7,355.86	90.45	82.326	
16,100.00	7,870.00	7,379.00	7,304.77	124.65	30.07	-73.24	1,261.08	3,667.19	7,543.30	7,452.75	90.54	83.310	
16,200.00	7,870.00	7,379.00	7,304.77	126.32	30.07	-73.24	1,261.08	3,667.19	7,640.37	7,549.73	90.64	84.295	
16,300.00	7,870.00	7,379.00	7,304.77	127.99	30.07	-73.24	1,261.08	3,667.19	7,737.51	7,646.78	90.73	85.280	
16,400.00	7,870.00	7,379.00	7,304.77	129.66	30.07	-73.24	1,261.08	3,667.19	7,834.73	7,743.91	90.82	86.265	
16,500.00	7,870.00	7,379.00	7,304.77	131.33	30.07	-73.24	1,261.08	3,667.19	7,932.01	7,841.10	90.91	87.251	
16,600.00	7,870.00	7,379.00	7,304.77	133.01	30.07	-73.24	1,261.08	3,667.19	8,029.36	7,938.36	91.00	88.237	
16,700.00	7,870.00	7,379.00	7,304.77	134.69	30.07	-73.24	1,261.08	3,667.19	8,126.78	8,035.69	91.08	89.223	
16,800.00	7,870.00	7,379.00	7,304.77	136.37	30.07	-73.24	1,261.08	3,667.19	8,224.26	8,133.09	91.17	90.209	
16,900.00	7,870.00	7,379.00	7,304.77	138.06	30.07	-73.24	1,261.08	3,667.19	8,321.79	8,230.54	91.25	91.195	
17,000.00	7,870.00	7,379.00	7,304.77	139.74	30.07	-73.24	1,261.08	3,667.19	8,419.39	8,328.05	91.34	92.181	
17,100.00	7,870.00	7,379.00	7,304.77	141.43	30.07	-73.24	1,261.08	3,667.19	8,517.04	8,425.62	91.42	93.167	
17,200.00	7,870.00	7,379.00	7,304.77	143.12	30.07	-73.24	1,261.08	3,667.19	8,614.75	8,523.25	91.50	94.153	
17,300.00	7,870.00	7,379.00	7,304.77	144.81	30.07	-73.24	1,261.08	3,667.19	8,712.50	8,620.93	91.58	95.139	
17,400.00	7,870.00	7,379.00	7,304.77	146.50	30.07	-73.24	1,261.08	3,667.19	8,810.31	8,718.65	91.66	96.124	
17,500.00	7,870.00	7,379.00	7,304.77	148.19	30.07	-73.24	1,261.08	3,667.19	8,908.17	8,816.43	91.73	97.110	
17,600.00	7,870.00	7,379.00	7,304.77	149.89	30.07	-73.24	1,261.08	3,667.19	9,006.07	8,914.26	91.81	98.095	
17,700.00	7,870.00	7,379.00	7,304.77	151.59	30.07	-73.24	1,261.08	3,667.19	9,104.02	9,012.13	91.89	99.079	
17,800.00	7,870.00	7,379.00	7,304.77	153.29	30.07	-73.24	1,261.08	3,667.19	9,202.01	9,110.05	91.96	100.064	
17,900.00	7,870.00	7,379.00	7,304.77	154.99	30.07	-73.24	1,261.08	3,667.19	9,300.05	9,208.01	92.04	101.048	
18,000.00	7,870.00	7,379.00	7,304.77	156.69	30.07	-73.24	1,261.08	3,667.19	9,398.12	9,306.01	92.11	102.032	
18,100.00	7,870.00	7,379.00	7,304.77	158.39	30.07	-73.24	1,261.08	3,667.19	9,496.24	9,404.06	92.18	103.015	
18,200.00	7,870.00	7,379.00	7,304.77	160.09	30.07	-73.24	1,261.08	3,667.19	9,594.40	9,502.14	92.26	103.998	
18,300.00	7,870.00	7,379.00	7,304.77	161.80	30.07	-73.24	1,261.08	3,667.19	9,692.59	9,600.26	92.33	104.980	
18,400.00	7,870.00	7,379.00	7,304.77	163.51	30.07	-73.24	1,261.08	3,667.19	9,790.82	9,698.42	92.40	105.962	
18,455.45	7,870.00	7,379.00	7,304.77	164.45	30.07	-73.24	1,261.08	3,667.19	9,845.30	9,752.87	92.44	106.506	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.46	2,112.38	3,441.50	4,038.27				
100.00	100.00	51.52	51.52	0.13	0.10	58.46	2,112.38	3,441.54	4,038.12	4,037.89	0.23	N/A	
200.00	200.00	125.24	125.23	0.49	0.36	58.46	2,112.29	3,442.08	4,038.68	4,037.83	0.85	4,734.143	
300.00	300.00	221.74	221.73	0.85	0.70	58.47	2,112.41	3,443.06	4,039.61	4,038.06	1.56	2,595.916	
400.00	400.00	309.64	309.63	1.21	1.02	58.47	2,112.87	3,443.93	4,040.73	4,038.50	2.23	1,813.206	
500.00	500.00	447.89	447.87	1.57	1.51	58.47	2,113.50	3,444.74	4,041.45	4,038.37	3.08	1,313.757	
600.00	600.00	532.85	532.83	1.93	1.81	58.46	2,114.25	3,444.83	4,041.99	4,038.26	3.73	1,082.666	
700.00	700.00	663.26	663.23	2.29	2.26	58.44	2,115.81	3,444.30	4,042.26	4,037.71	4.55	889.189	
800.00	800.00	775.24	775.20	2.64	2.65	58.43	2,116.40	3,443.64	4,042.02	4,036.73	5.29	763.938	
900.00	900.00	884.88	884.84	3.00	3.03	58.42	2,116.62	3,442.91	4,041.57	4,035.54	6.03	670.499	
1,000.00	1,000.00	982.73	982.68	3.36	3.36	58.41	2,116.64	3,442.18	4,040.94	4,034.22	6.72	601.102	
1,100.00	1,100.00	1,069.51	1,069.47	3.72	3.66	58.42	2,116.24	3,442.02	4,040.55	4,033.17	7.38	547.452	
1,200.00	1,200.00	2,018.00	2,008.12	4.08	7.21	58.66	2,045.35	3,358.21	4,022.26	4,011.34	10.92	368.224	
1,300.00	1,300.00	2,152.98	2,139.55	4.44	7.81	58.80	2,021.73	3,338.58	4,000.67	3,988.91	11.76	340.283	
1,400.00	1,399.98	2,216.99	2,201.87	4.79	8.10	16.07	2,010.36	3,329.36	3,977.46	3,965.11	12.36	321.833	
1,500.00	1,499.84	2,274.68	2,258.14	5.15	8.36	16.29	2,000.41	3,321.48	3,951.91	3,938.97	12.94	305.373	
1,600.00	1,599.45	2,423.73	2,403.57	5.51	9.05	16.70	1,974.73	3,301.33	3,923.45	3,909.62	13.83	283.655	
1,700.00	1,698.70	2,572.00	2,547.55	5.87	9.77	17.17	1,947.71	3,278.44	3,889.31	3,874.59	14.72	264.213	
1,800.00	1,797.47	2,636.19	2,609.85	6.24	10.08	17.53	1,936.06	3,268.29	3,852.22	3,836.89	15.33	251.353	
1,900.00	1,895.62	2,682.65	2,655.12	6.63	10.31	17.89	1,928.28	3,261.28	3,813.25	3,797.37	15.87	240.259	
2,000.00	1,993.06	2,761.00	2,731.75	7.04	10.69	18.34	1,916.39	3,250.14	3,772.59	3,756.07	16.52	228.333	
2,100.00	2,089.64	2,780.90	2,751.26	7.48	10.78	18.69	1,913.55	3,247.45	3,729.46	3,712.48	16.98	219.631	
2,200.00	2,185.27	2,845.59	2,814.72	7.94	11.09	19.20	1,904.13	3,239.12	3,684.34	3,666.75	17.59	209.467	
2,300.00	2,279.82	2,981.90	2,948.20	8.45	11.74	20.02	1,882.63	3,221.76	3,635.88	3,617.44	18.44	197.176	
2,400.00	2,373.17	3,160.73	3,122.56	8.99	12.62	21.18	1,850.78	3,198.20	3,583.95	3,564.51	19.43	184.446	
2,500.00	2,465.21	3,268.84	3,227.52	9.58	13.18	22.19	1,830.75	3,181.67	3,527.11	3,506.92	20.19	174.662	
2,574.08	2,532.50	3,348.18	3,304.46	10.04	13.59	23.02	1,816.00	3,169.10	3,483.11	3,462.36	20.76	167.785	
2,600.00	2,555.89	3,402.43	3,356.96	10.21	13.88	23.31	1,805.82	3,160.00	3,467.30	3,446.26	21.04	164.813	
2,700.00	2,646.16	3,455.63	3,408.40	10.88	14.16	23.60	1,795.86	3,150.81	3,406.08	3,384.44	21.64	157.425	
2,800.00	2,736.44	3,494.38	3,445.99	11.57	14.36	23.81	1,788.93	3,144.44	3,345.82	3,323.62	22.21	150.664	
2,900.00	2,826.71	3,604.95	3,553.32	12.27	14.94	24.44	1,768.95	3,126.95	3,286.19	3,263.19	23.00	142.878	
3,000.00	2,916.98	3,652.06	3,598.95	13.00	15.19	24.73	1,759.95	3,119.49	3,226.18	3,202.55	23.63	136.548	
3,100.00	3,007.25	3,704.00	3,649.43	13.73	15.46	25.05	1,750.58	3,111.63	3,167.14	3,142.86	24.28	130.434	
3,200.00	3,097.52	3,789.64	3,732.71	14.48	15.91	25.60	1,735.19	3,098.90	3,108.55	3,083.51	25.04	124.130	
3,300.00	3,187.80	3,848.57	3,789.96	15.23	16.22	25.99	1,724.25	3,090.24	3,050.04	3,024.29	25.75	118.461	
3,400.00	3,278.07	3,904.74	3,844.61	15.99	16.51	26.38	1,713.86	3,082.44	2,992.28	2,965.82	26.46	113.089	
3,500.00	3,368.34	3,963.98	3,902.36	16.76	16.81	26.79	1,703.32	3,074.43	2,935.25	2,908.06	27.19	107.937	
3,600.00	3,458.61	4,032.08	3,968.87	17.54	17.15	27.27	1,691.86	3,065.34	2,878.87	2,850.90	27.96	102.951	
3,700.00	3,548.89	4,106.44	4,041.57	18.32	17.53	27.80	1,679.90	3,055.32	2,822.86	2,794.10	28.76	98.155	
3,800.00	3,639.16	4,209.39	4,142.34	19.10	18.04	28.53	1,664.47	3,040.91	2,767.13	2,737.51	29.63	93.394	
3,900.00	3,729.43	4,337.76	4,267.48	19.89	18.70	29.48	1,644.55	3,020.39	2,709.68	2,679.13	30.56	88.680	
4,000.00	3,819.70	4,452.90	4,379.46	20.69	19.30	30.38	1,626.19	3,000.90	2,651.87	2,620.41	31.46	84.291	
4,100.00	3,909.98	4,581.18	4,503.42	21.48	20.01	31.50	1,603.29	2,977.19	2,592.31	2,559.90	32.41	79.995	
4,200.00	4,000.25	4,635.45	4,555.84	22.28	20.31	32.00	1,593.44	2,967.15	2,533.13	2,499.88	33.25	76.190	
4,300.00	4,090.52	4,715.54	4,633.27	23.08	20.76	32.76	1,578.98	2,952.67	2,474.58	2,440.43	34.15	72.459	
4,400.00	4,180.79	4,772.17	4,687.97	23.88	21.07	33.34	1,568.33	2,942.59	2,416.37	2,381.32	35.05	68.950	
4,500.00	4,271.06	4,816.60	4,731.03	24.69	21.31	33.80	1,560.30	2,935.17	2,359.48	2,323.53	35.94	65.644	
4,600.00	4,361.34	4,933.14	4,844.05	25.49	21.94	35.05	1,539.36	2,915.99	2,303.33	2,266.36	36.97	62.298	
4,700.00	4,451.61	5,054.18	4,960.44	26.30	22.64	36.50	1,514.90	2,893.54	2,245.05	2,207.01	38.04	59.015	
4,800.00	4,541.88	5,108.78	5,012.93	27.11	22.96	37.19	1,503.74	2,883.43	2,187.45	2,148.39	39.06	56.002	
4,900.00	4,632.15	5,159.20	5,061.51	27.92	23.24	37.85	1,493.55	2,874.57	2,131.11	2,091.00	40.11	53.136	
5,000.00	4,722.43	5,213.00	5,113.42	28.74	23.55	38.59	1,482.40	2,865.91	2,076.25	2,035.05	41.19	50.401	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,299.85	5,197.16	29.55	24.04	39.85	1,463.79	2,852.34	2,022.25	1,979.87	42.38	47.715	
5,200.00	4,902.97	5,355.51	5,250.81	30.37	24.35	40.70	1,451.81	2,843.64	1,968.93	1,925.37	43.56	45.201	
5,300.00	4,993.24	5,415.20	5,308.58	31.18	24.68	41.61	1,439.62	2,834.89	1,917.23	1,872.45	44.78	42.814	
5,400.00	5,083.51	5,510.98	5,401.16	32.00	25.21	43.16	1,419.68	2,820.57	1,866.03	1,819.92	46.11	40.471	
5,500.00	5,173.79	5,581.64	5,469.46	32.82	25.61	44.35	1,405.10	2,809.80	1,815.52	1,768.08	47.44	38.269	
5,600.00	5,264.06	5,649.38	5,535.04	33.63	25.98	45.53	1,391.51	2,799.67	1,766.22	1,717.41	48.81	36.183	
5,700.00	5,354.33	5,721.67	5,605.10	34.45	26.37	46.83	1,377.10	2,789.18	1,718.27	1,668.02	50.24	34.199	
5,800.00	5,444.60	5,805.65	5,686.59	35.27	26.83	48.39	1,360.91	2,776.91	1,671.36	1,619.63	51.74	32.305	
5,900.00	5,534.88	5,896.50	5,774.77	36.09	27.32	50.13	1,344.33	2,762.68	1,624.81	1,571.54	53.28	30.497	
6,000.00	5,625.15	5,965.30	5,841.68	36.91	27.69	51.48	1,332.49	2,751.89	1,579.50	1,524.66	54.83	28.806	
6,100.00	5,715.42	6,037.77	5,912.16	37.74	28.08	52.97	1,319.69	2,740.86	1,535.77	1,479.31	56.46	27.203	
6,200.00	5,805.69	6,097.59	5,970.23	38.56	28.40	54.27	1,308.35	2,732.12	1,493.92	1,435.80	58.12	25.702	
6,300.00	5,895.96	6,158.00	6,029.20	39.38	28.71	55.59	1,297.85	2,724.29	1,454.79	1,394.97	59.82	24.319	
6,400.00	5,986.24	6,208.96	6,079.21	40.20	28.96	56.70	1,289.88	2,718.54	1,418.49	1,356.99	61.50	23.065	
6,500.00	6,076.51	6,271.81	6,141.14	41.03	29.25	58.06	1,281.08	2,712.53	1,385.09	1,321.89	63.21	21.914	
6,600.00	6,166.78	6,351.63	6,219.98	41.85	29.61	59.80	1,270.79	2,705.50	1,353.85	1,288.88	64.96	20.841	
6,700.00	6,257.05	6,456.15	6,323.37	42.67	30.06	62.11	1,258.94	2,695.74	1,323.62	1,256.85	66.78	19.822	
6,800.00	6,347.33	6,517.37	6,384.10	43.50	30.31	63.45	1,253.36	2,690.51	1,295.28	1,226.80	68.48	18.914	
6,900.00	6,437.60	6,588.54	6,454.90	44.32	30.59	64.99	1,248.11	2,685.53	1,269.58	1,199.40	70.18	18.091	
7,000.00	6,527.87	6,669.48	6,535.55	45.15	30.89	66.74	1,242.98	2,680.83	1,246.26	1,174.39	71.87	17.340	
7,100.00	6,618.14	6,758.48	6,624.30	45.98	31.20	68.67	1,238.56	2,675.91	1,224.44	1,150.88	73.56	16.647	
7,200.00	6,708.41	6,843.08	6,708.72	46.80	31.50	70.52	1,235.14	2,671.55	1,204.29	1,129.09	75.21	16.013	
7,300.00	6,798.69	6,926.76	6,792.30	47.63	31.77	72.33	1,232.93	2,667.98	1,186.05	1,109.23	76.81	15.441	
7,400.00	6,888.96	7,011.55	6,877.02	48.45	32.04	74.16	1,231.58	2,665.05	1,169.70	1,091.33	78.38	14.924	
7,500.00	6,979.23	7,100.14	6,965.56	49.28	32.31	76.10	1,230.51	2,662.31	1,155.10	1,075.19	79.91	14.455	
7,600.00	7,069.50	7,175.32	7,040.71	50.11	32.54	77.76	1,229.43	2,660.41	1,142.69	1,061.30	81.38	14.041	
7,692.09	7,152.63	7,248.33	7,113.70	50.87	32.76	79.39	1,228.26	2,659.40	1,133.63	1,050.93	82.70	13.709	
7,700.00	7,159.79	7,254.81	7,120.18	50.93	32.78	78.26	1,228.18	2,659.35	1,132.91	1,050.11	82.80	13.682	
7,750.00	7,205.70	7,298.24	7,163.61	51.32	32.90	69.59	1,227.82	2,659.25	1,127.23	1,043.78	83.45	13.508	
7,800.00	7,252.52	7,353.59	7,218.96	51.66	33.05	58.09	1,227.77	2,659.15	1,119.15	1,035.11	84.04	13.318	
7,850.00	7,299.89	7,427.83	7,293.17	51.96	33.24	43.83	1,229.30	2,658.93	1,108.21	1,023.68	84.53	13.110	
7,900.00	7,347.44	8,315.58	7,895.37	52.20	32.64	-4.93	1,779.32	2,644.86	1,069.60	1,004.90	64.69	16.534	
7,950.00	7,394.83	8,316.75	7,895.51	52.39	32.64	-25.43	1,780.47	2,644.85	1,031.03	965.38	65.65	15.705	
8,000.00	7,441.68	8,314.21	7,895.20	52.53	32.65	-42.68	1,777.95	2,644.87	993.68	927.12	66.57	14.928	
8,050.00	7,487.65	8,308.42	7,894.47	52.62	32.66	-56.40	1,772.21	2,644.94	957.95	890.54	67.41	14.211	
8,100.00	7,532.37	8,299.77	7,893.29	52.67	32.68	-67.06	1,763.64	2,645.10	924.23	856.08	68.15	13.561	
8,150.00	7,575.52	8,288.62	7,891.63	52.67	32.70	-75.26	1,752.62	2,645.42	892.92	824.15	68.77	12.984	
8,200.00	7,616.76	8,263.11	7,887.08	52.63	32.76	-80.68	1,727.54	2,646.45	864.31	794.65	69.67	12.407	
8,250.00	7,655.77	8,211.81	7,874.25	52.55	32.87	-82.96	1,677.95	2,648.73	838.35	767.05	71.30	11.758	
8,300.00	7,692.27	8,162.57	7,857.55	52.44	32.98	-84.36	1,631.67	2,650.13	814.60	741.94	72.66	11.211	
8,350.00	7,725.97	8,133.80	7,846.09	52.29	33.04	-86.36	1,605.29	2,650.76	793.89	720.91	72.98	10.878	
8,400.00	7,756.62	8,109.94	7,835.90	52.12	33.09	-87.96	1,583.72	2,651.30	776.62	703.78	72.83	10.663	
8,450.00	7,783.98	8,082.09	7,823.31	51.92	33.15	-88.64	1,558.89	2,651.97	762.93	690.37	72.56	10.515	
8,500.00	7,807.85	8,050.18	7,807.88	51.70	33.21	-88.51	1,530.96	2,652.64	752.72	680.55	72.17	10.430	
8,550.00	7,828.05	8,019.02	7,791.64	51.45	33.27	-87.92	1,504.37	2,653.18	745.95	674.43	71.52	10.430	SF
8,600.00	7,844.41	7,988.77	7,774.65	51.20	33.33	-86.94	1,479.36	2,653.62	742.59	671.92	70.66	10.509	ES
8,625.62	7,851.27	7,973.66	7,765.72	51.06	33.36	-86.29	1,467.17	2,653.82	742.16	671.99	70.16	10.577	CC
8,650.00	7,856.82	7,959.32	7,757.00	50.93	33.38	-85.58	1,455.79	2,654.00	742.54	672.87	69.66	10.659	
8,700.00	7,865.18	7,929.48	7,737.95	50.65	33.43	-83.79	1,432.83	2,654.31	745.62	677.01	68.62	10.867	
8,750.00	7,869.43	7,905.00	7,721.30	50.36	33.46	-81.93	1,414.88	2,654.44	751.63	684.17	67.46	11.141	
8,776.25	7,870.00	7,889.24	7,710.10	50.21	33.48	-80.65	1,403.80	2,654.51	755.91	688.98	66.94	11.293	
8,800.00	7,870.00	7,878.59	7,702.32	50.08	33.49	-80.06	1,396.54	2,654.58	760.39	693.97	66.42	11.448	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,840.40	7,673.06	49.53	33.53	-77.86	1,372.01	2,654.99	784.76	720.26	64.50	12.167	
9,000.00	7,870.00	7,811.00	7,649.48	49.01	33.55	-76.13	1,354.46	2,655.76	818.10	754.91	63.19	12.947	
9,100.00	7,870.00	7,773.38	7,618.28	48.52	33.56	-73.89	1,333.50	2,657.10	859.53	796.95	62.58	13.735	
9,200.00	7,870.00	7,740.54	7,590.21	48.06	33.57	-71.93	1,316.50	2,658.31	908.15	845.64	62.52	14.527	
9,300.00	7,870.00	7,717.00	7,569.66	47.63	33.57	-70.52	1,305.05	2,659.09	963.11	900.19	62.92	15.307	
9,400.00	7,870.00	7,684.80	7,540.97	47.22	33.56	-68.59	1,290.46	2,659.97	1,023.58	960.01	63.56	16.103	
9,500.00	7,870.00	7,670.00	7,527.57	46.83	33.56	-67.71	1,284.19	2,660.28	1,088.99	1,024.49	64.50	16.883	
9,600.00	7,870.00	7,644.43	7,504.08	46.48	33.55	-66.18	1,274.09	2,660.65	1,158.56	1,093.12	65.44	17.704	
9,700.00	7,870.00	7,622.00	7,483.15	46.14	33.53	-64.84	1,266.05	2,660.79	1,231.88	1,165.46	66.42	18.546	
9,800.00	7,870.00	7,622.00	7,483.15	45.83	33.53	-64.84	1,266.05	2,660.79	1,308.32	1,240.78	67.55	19.369	
9,900.00	7,870.00	7,604.78	7,466.87	45.54	33.52	-63.82	1,260.42	2,660.82	1,387.43	1,318.94	68.49	20.257	
10,000.00	7,870.00	7,595.21	7,457.75	45.27	33.51	-63.26	1,257.53	2,660.82	1,468.92	1,399.49	69.43	21.157	
10,100.00	7,870.00	7,575.00	7,438.33	45.03	33.49	-62.07	1,251.94	2,660.77	1,552.54	1,482.31	70.23	22.105	
10,200.00	7,870.00	7,575.00	7,438.33	44.82	33.49	-62.07	1,251.94	2,660.77	1,637.60	1,566.52	71.08	23.037	
10,300.00	7,870.00	7,575.00	7,438.33	44.66	33.49	-62.07	1,251.94	2,660.77	1,724.27	1,652.41	71.86	23.995	
10,400.00	7,870.00	7,575.00	7,438.33	44.56	33.49	-62.07	1,251.94	2,660.77	1,812.30	1,739.74	72.56	24.975	
10,500.00	7,870.00	7,557.38	7,421.25	44.58	33.47	-61.05	1,247.63	2,660.67	1,901.23	1,828.09	73.14	25.994	
10,600.00	7,870.00	7,551.24	7,415.26	44.82	33.46	-60.69	1,246.24	2,660.61	1,991.24	1,917.52	73.71	27.014	
10,700.00	7,870.00	7,545.58	7,409.74	45.36	33.45	-60.36	1,245.02	2,660.55	2,082.09	2,007.86	74.24	28.047	
10,800.00	7,870.00	7,528.00	7,392.51	46.15	33.43	-59.36	1,241.52	2,660.31	2,173.84	2,099.16	74.68	29.107	
10,900.00	7,870.00	7,528.00	7,392.51	47.09	33.43	-59.36	1,241.52	2,660.31	2,266.02	2,190.88	75.15	30.155	
11,000.00	7,870.00	7,528.00	7,392.51	48.13	33.43	-59.36	1,241.52	2,660.31	2,358.84	2,283.27	75.57	31.214	
11,100.00	7,870.00	7,528.00	7,392.51	49.22	33.43	-59.36	1,241.52	2,660.31	2,452.22	2,376.26	75.96	32.283	
11,200.00	7,870.00	7,528.00	7,392.51	50.37	33.43	-59.36	1,241.52	2,660.31	2,546.11	2,469.79	76.32	33.361	
11,300.00	7,870.00	7,528.00	7,392.51	51.55	33.43	-59.36	1,241.52	2,660.31	2,640.44	2,563.79	76.65	34.447	
11,400.00	7,870.00	7,528.00	7,392.51	52.76	33.43	-59.36	1,241.52	2,660.31	2,735.18	2,658.21	76.96	35.540	
11,500.00	7,870.00	7,509.37	7,374.17	54.00	33.40	-58.31	1,238.29	2,660.00	2,830.01	2,752.79	77.22	36.649	
11,600.00	7,870.00	7,505.65	7,370.49	55.27	33.39	-58.10	1,237.69	2,659.93	2,925.33	2,847.84	77.49	37.753	
11,700.00	7,870.00	7,502.12	7,367.01	56.56	33.38	-57.91	1,237.14	2,659.87	3,020.92	2,943.19	77.73	38.863	
11,800.00	7,870.00	7,498.77	7,363.70	57.88	33.38	-57.72	1,236.63	2,659.81	3,116.78	3,038.81	77.97	39.976	
11,900.00	7,870.00	7,481.00	7,346.11	59.21	33.35	-56.74	1,234.15	2,659.47	3,213.03	3,134.86	78.17	41.104	
12,000.00	7,870.00	7,481.00	7,346.11	60.57	33.35	-56.74	1,234.15	2,659.47	3,309.28	3,230.90	78.38	42.221	
12,100.00	7,870.00	7,481.00	7,346.11	61.94	33.35	-56.74	1,234.15	2,659.47	3,405.75	3,327.17	78.58	43.342	
12,200.00	7,870.00	7,481.00	7,346.11	63.33	33.35	-56.74	1,234.15	2,659.47	3,502.42	3,423.65	78.77	44.466	
12,300.00	7,870.00	7,481.00	7,346.11	64.74	33.35	-56.74	1,234.15	2,659.47	3,599.27	3,520.32	78.94	45.592	
12,400.00	7,870.00	7,481.00	7,346.11	66.16	33.35	-56.74	1,234.15	2,659.47	3,696.29	3,617.17	79.11	46.722	
12,500.00	7,870.00	7,481.00	7,346.11	67.59	33.35	-56.74	1,234.15	2,659.47	3,793.46	3,714.18	79.27	47.853	
12,600.00	7,870.00	7,481.00	7,346.11	69.04	33.35	-56.74	1,234.15	2,659.47	3,890.77	3,811.35	79.42	48.987	
12,700.00	7,870.00	7,481.00	7,346.11	70.51	33.35	-56.74	1,234.15	2,659.47	3,988.22	3,908.65	79.57	50.122	
12,800.00	7,870.00	7,481.00	7,346.11	71.98	33.35	-56.74	1,234.15	2,659.47	4,085.79	4,006.08	79.71	51.259	
12,900.00	7,870.00	7,481.00	7,346.11	73.47	33.35	-56.74	1,234.15	2,659.47	4,183.48	4,103.64	79.84	52.398	
13,000.00	7,870.00	7,481.00	7,346.11	74.96	33.35	-56.74	1,234.15	2,659.47	4,281.27	4,201.30	79.97	53.538	
13,100.00	7,870.00	7,481.00	7,346.11	76.47	33.35	-56.74	1,234.15	2,659.47	4,379.16	4,299.07	80.09	54.679	
13,200.00	7,870.00	7,481.00	7,346.11	77.99	33.35	-56.74	1,234.15	2,659.47	4,477.15	4,396.94	80.21	55.820	
13,300.00	7,870.00	7,481.00	7,346.11	79.51	33.35	-56.74	1,234.15	2,659.47	4,575.22	4,494.90	80.32	56.963	
13,400.00	7,870.00	7,481.00	7,346.11	81.05	33.35	-56.74	1,234.15	2,659.47	4,673.38	4,592.95	80.43	58.107	
13,500.00	7,870.00	7,481.00	7,346.11	82.59	33.35	-56.74	1,234.15	2,659.47	4,771.61	4,691.08	80.53	59.251	
13,600.00	7,870.00	7,481.00	7,346.11	84.14	33.35	-56.74	1,234.15	2,659.47	4,869.91	4,789.28	80.63	60.395	
13,700.00	7,870.00	7,481.00	7,346.11	85.70	33.35	-56.74	1,234.15	2,659.47	4,968.28	4,887.55	80.73	61.540	
13,800.00	7,870.00	7,460.04	7,325.28	87.26	33.31	-55.62	1,231.77	2,659.14	5,066.35	4,985.53	80.82	62.686	
13,900.00	7,870.00	7,458.87	7,324.12	88.83	33.30	-55.56	1,231.65	2,659.13	5,164.81	5,083.89	80.91	63.831	
14,000.00	7,870.00	7,457.75	7,323.00	90.41	33.30	-55.50	1,231.54	2,659.11	5,263.32	5,182.31	81.00	64.976	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,456.66	7,321.92	92.00	33.30	-55.44	1,231.44	2,659.10	5,361.88	5,280.79	81.09	66.121	
14,200.00	7,870.00	7,455.61	7,320.87	93.59	33.30	-55.39	1,231.34	2,659.09	5,460.50	5,379.32	81.18	67.266	
14,300.00	7,870.00	7,454.58	7,319.85	95.18	33.29	-55.33	1,231.25	2,659.08	5,559.16	5,477.90	81.26	68.411	
14,400.00	7,870.00	7,433.00	7,298.33	96.79	33.25	-54.21	1,229.60	2,658.94	5,658.21	5,576.87	81.34	69.563	
14,500.00	7,870.00	7,433.00	7,298.33	98.39	33.25	-54.21	1,229.60	2,658.94	5,756.93	5,675.51	81.42	70.707	
14,600.00	7,870.00	7,433.00	7,298.33	100.00	33.25	-54.21	1,229.60	2,658.94	5,855.69	5,774.19	81.50	71.851	
14,700.00	7,870.00	7,433.00	7,298.33	101.62	33.25	-54.21	1,229.60	2,658.94	5,954.49	5,872.92	81.57	72.994	
14,800.00	7,870.00	7,433.00	7,298.33	103.24	33.25	-54.21	1,229.60	2,658.94	6,053.34	5,971.69	81.65	74.137	
14,900.00	7,870.00	7,433.00	7,298.33	104.87	33.25	-54.21	1,229.60	2,658.94	6,152.22	6,070.49	81.72	75.280	
15,000.00	7,870.00	7,433.00	7,298.33	106.50	33.25	-54.21	1,229.60	2,658.94	6,251.13	6,169.33	81.80	76.422	
15,100.00	7,870.00	7,433.00	7,298.33	108.13	33.25	-54.21	1,229.60	2,658.94	6,350.08	6,268.21	81.87	77.564	
15,200.00	7,870.00	7,433.00	7,298.33	109.77	33.25	-54.21	1,229.60	2,658.94	6,449.06	6,367.12	81.94	78.705	
15,300.00	7,870.00	7,433.00	7,298.33	111.41	33.25	-54.21	1,229.60	2,658.94	6,548.08	6,466.07	82.01	79.846	
15,400.00	7,870.00	7,433.00	7,298.33	113.05	33.25	-54.21	1,229.60	2,658.94	6,647.12	6,565.04	82.08	80.986	
15,500.00	7,870.00	7,433.00	7,298.33	114.70	33.25	-54.21	1,229.60	2,658.94	6,746.19	6,664.04	82.15	82.125	
15,600.00	7,870.00	7,433.00	7,298.33	116.35	33.25	-54.21	1,229.60	2,658.94	6,845.29	6,763.07	82.21	83.264	
15,700.00	7,870.00	7,433.00	7,298.33	118.00	33.25	-54.21	1,229.60	2,658.94	6,944.41	6,862.13	82.28	84.402	
15,800.00	7,870.00	7,433.00	7,298.33	119.66	33.25	-54.21	1,229.60	2,658.94	7,043.56	6,961.21	82.34	85.539	
15,900.00	7,870.00	7,433.00	7,298.33	121.32	33.25	-54.21	1,229.60	2,658.94	7,142.73	7,060.32	82.41	86.675	
16,000.00	7,870.00	7,433.00	7,298.33	122.98	33.25	-54.21	1,229.60	2,658.94	7,241.92	7,159.45	82.47	87.810	
16,100.00	7,870.00	7,433.00	7,298.33	124.65	33.25	-54.21	1,229.60	2,658.94	7,341.14	7,258.60	82.54	88.945	
16,200.00	7,870.00	7,433.00	7,298.33	126.32	33.25	-54.21	1,229.60	2,658.94	7,440.38	7,357.78	82.60	90.079	
16,300.00	7,870.00	7,433.00	7,298.33	127.99	33.25	-54.21	1,229.60	2,658.94	7,539.64	7,456.97	82.66	91.211	
16,400.00	7,870.00	7,433.00	7,298.33	129.66	33.25	-54.21	1,229.60	2,658.94	7,638.91	7,556.19	82.72	92.343	
16,500.00	7,870.00	7,433.00	7,298.33	131.33	33.25	-54.21	1,229.60	2,658.94	7,738.21	7,655.42	82.78	93.474	
16,600.00	7,870.00	7,433.00	7,298.33	133.01	33.25	-54.21	1,229.60	2,658.94	7,837.52	7,754.68	82.85	94.603	
16,700.00	7,870.00	7,433.00	7,298.33	134.69	33.25	-54.21	1,229.60	2,658.94	7,936.85	7,853.95	82.91	95.732	
16,800.00	7,870.00	7,433.00	7,298.33	136.37	33.25	-54.21	1,229.60	2,658.94	8,036.20	7,953.23	82.97	96.859	
16,900.00	7,870.00	7,433.00	7,298.33	138.06	33.25	-54.21	1,229.60	2,658.94	8,135.56	8,052.54	83.03	97.986	
17,000.00	7,870.00	7,433.00	7,298.33	139.74	33.25	-54.21	1,229.60	2,658.94	8,234.94	8,151.85	83.09	99.111	
17,100.00	7,870.00	7,433.00	7,298.33	141.43	33.25	-54.21	1,229.60	2,658.94	8,334.34	8,251.19	83.15	100.235	
17,200.00	7,870.00	7,433.00	7,298.33	143.12	33.25	-54.21	1,229.60	2,658.94	8,433.74	8,350.54	83.21	101.358	
17,300.00	7,870.00	7,433.00	7,298.33	144.81	33.25	-54.21	1,229.60	2,658.94	8,533.17	8,449.90	83.27	102.479	
17,400.00	7,870.00	7,433.00	7,298.33	146.50	33.25	-54.21	1,229.60	2,658.94	8,632.60	8,549.27	83.33	103.599	
17,500.00	7,870.00	7,433.00	7,298.33	148.19	33.25	-54.21	1,229.60	2,658.94	8,732.05	8,648.66	83.39	104.718	
17,600.00	7,870.00	7,433.00	7,298.33	149.89	33.25	-54.21	1,229.60	2,658.94	8,831.51	8,748.06	83.45	105.836	
17,700.00	7,870.00	7,433.00	7,298.33	151.59	33.25	-54.21	1,229.60	2,658.94	8,930.98	8,847.48	83.50	106.952	
17,800.00	7,870.00	7,433.00	7,298.33	153.29	33.25	-54.21	1,229.60	2,658.94	9,030.47	8,946.90	83.56	108.067	
17,900.00	7,870.00	7,433.00	7,298.33	154.99	33.25	-54.21	1,229.60	2,658.94	9,129.96	9,046.34	83.62	109.181	
18,000.00	7,870.00	7,433.00	7,298.33	156.69	33.25	-54.21	1,229.60	2,658.94	9,229.47	9,145.79	83.68	110.293	
18,100.00	7,870.00	7,433.00	7,298.33	158.39	33.25	-54.21	1,229.60	2,658.94	9,328.99	9,245.25	83.74	111.404	
18,200.00	7,870.00	7,433.00	7,298.33	160.09	33.25	-54.21	1,229.60	2,658.94	9,428.51	9,344.71	83.80	112.513	
18,300.00	7,870.00	7,433.00	7,298.33	161.80	33.25	-54.21	1,229.60	2,658.94	9,528.05	9,444.19	83.86	113.621	
18,400.00	7,870.00	7,433.00	7,298.33	163.51	33.25	-54.21	1,229.60	2,658.94	9,627.60	9,543.68	83.92	114.727	
18,455.45	7,870.00	7,433.00	7,298.33	164.45	33.25	-54.21	1,229.60	2,658.94	9,682.80	9,598.85	83.95	115.340	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	58.68	2,112.39	3,472.02	4,064.31				
100.00	100.00	50.49	50.49	0.13	0.09	58.68	2,112.39	3,472.05	4,064.17	4,063.94	0.23	N/A	
200.00	200.00	125.00	125.00	0.49	0.36	58.69	2,112.45	3,472.57	4,064.79	4,063.94	0.85	4,769.894	
300.00	300.00	193.60	193.59	0.85	0.61	58.69	2,112.73	3,473.48	4,066.10	4,064.65	1.46	2,790.827	
400.00	400.00	287.79	287.77	1.21	0.94	58.69	2,113.56	3,475.02	4,067.95	4,065.80	2.15	1,889.968	
500.00	500.00	442.41	442.37	1.57	1.49	58.70	2,114.27	3,476.80	4,069.23	4,066.17	3.06	1,329.132	
600.00	600.00	567.83	567.79	1.93	1.92	58.70	2,114.08	3,476.96	4,069.23	4,065.38	3.85	1,056.990	
700.00	700.00	679.57	679.53	2.29	2.30	58.69	2,114.32	3,476.52	4,069.02	4,064.43	4.59	887.242	
800.00	800.00	804.16	804.12	2.64	2.73	58.68	2,114.32	3,475.38	4,068.23	4,062.86	5.37	757.674	
900.00	900.00	883.21	883.16	3.00	3.00	58.68	2,114.18	3,474.62	4,067.34	4,061.34	6.00	677.782	
1,000.00	1,000.00	978.76	978.70	3.36	3.33	58.67	2,114.51	3,474.09	4,067.03	4,060.34	6.69	607.730	
1,100.00	1,100.00	1,114.64	1,114.57	3.72	3.81	58.66	2,114.94	3,472.45	4,066.17	4,058.65	7.52	540.360	
1,200.00	1,200.00	1,863.55	1,859.06	4.08	6.53	58.79	2,073.85	3,423.26	4,062.86	4,052.44	10.42	389.860	
1,300.00	1,300.00	1,974.66	1,967.94	4.44	6.98	58.94	2,054.88	3,411.88	4,045.14	4,033.97	11.17	362.068	
1,400.00	1,399.98	2,127.60	2,117.25	4.79	7.62	16.40	2,024.52	3,398.77	4,026.04	4,013.97	12.07	333.470	
1,500.00	1,499.84	2,179.69	2,168.02	5.15	7.85	16.65	2,013.71	3,394.46	4,003.08	3,990.44	12.64	316.678	
1,600.00	1,599.45	2,278.05	2,263.96	5.51	8.28	17.04	1,993.51	3,386.52	3,977.38	3,964.01	13.37	297.481	
1,700.00	1,698.70	2,355.42	2,339.40	5.87	8.63	17.42	1,977.50	3,380.32	3,948.51	3,934.48	14.03	281.459	
1,800.00	1,797.47	2,419.81	2,402.33	6.24	8.92	17.80	1,964.88	3,375.18	3,917.10	3,902.46	14.64	267.529	
1,900.00	1,895.62	2,478.47	2,459.78	6.63	9.18	18.19	1,953.91	3,370.76	3,883.41	3,868.18	15.24	254.900	
2,000.00	1,993.06	2,536.76	2,517.00	7.04	9.44	18.61	1,943.50	3,366.65	3,847.49	3,831.66	15.83	243.084	
2,100.00	2,089.64	2,573.00	2,552.61	7.48	9.60	18.99	1,937.27	3,364.24	3,809.46	3,793.12	16.34	233.086	
2,200.00	2,185.27	2,649.29	2,627.74	7.94	9.93	19.54	1,924.91	3,359.52	3,769.11	3,752.10	17.00	221.659	
2,300.00	2,279.82	2,704.36	2,682.10	8.45	10.17	20.05	1,916.65	3,356.40	3,726.74	3,709.15	17.59	211.825	
2,400.00	2,373.17	2,760.00	2,737.12	8.99	10.41	20.61	1,908.88	3,353.48	3,682.31	3,664.12	18.19	202.426	
2,500.00	2,465.21	2,947.21	2,922.29	9.58	11.21	21.75	1,884.44	3,340.80	3,634.39	3,615.15	19.24	188.900	
2,574.08	2,532.50	3,008.96	2,983.23	10.04	11.48	22.37	1,875.82	3,335.91	3,596.18	3,576.41	19.76	181.978	
2,600.00	2,555.89	3,030.89	3,004.86	10.21	11.58	22.47	1,872.57	3,334.27	3,582.55	3,562.61	19.95	179.605	
2,700.00	2,646.16	3,093.10	3,066.20	10.88	11.85	22.78	1,863.21	3,329.86	3,530.28	3,509.69	20.59	171.483	
2,800.00	2,736.44	3,149.26	3,121.63	11.57	12.10	23.07	1,854.94	3,326.18	3,478.68	3,457.46	21.22	163.935	
2,900.00	2,826.71	3,198.80	3,170.61	12.27	12.31	23.32	1,848.18	3,323.16	3,427.98	3,406.14	21.84	156.936	
3,000.00	2,916.98	3,435.18	3,404.02	13.00	13.35	24.52	1,816.58	3,303.80	3,375.98	3,352.93	23.06	146.410	
3,100.00	3,007.25	3,495.84	3,463.81	13.73	13.62	24.83	1,808.44	3,297.52	3,322.50	3,298.76	23.74	139.969	
3,200.00	3,097.52	3,621.97	3,588.04	14.48	14.19	25.51	1,791.24	3,284.13	3,268.89	3,244.28	24.61	132.803	
3,300.00	3,187.80	3,708.50	3,673.17	15.23	14.59	25.99	1,779.07	3,274.45	3,214.85	3,189.46	25.39	126.615	
3,400.00	3,278.07	3,824.65	3,787.09	15.99	15.14	26.70	1,760.76	3,261.22	3,160.14	3,133.87	26.27	120.315	
3,500.00	3,368.34	3,886.00	3,847.15	16.76	15.43	27.11	1,750.20	3,254.49	3,105.54	3,078.53	27.01	114.979	
3,600.00	3,458.61	3,940.22	3,900.28	17.54	15.69	27.49	1,740.87	3,248.96	3,051.74	3,023.99	27.75	109.972	
3,700.00	3,548.89	3,993.99	3,953.07	18.32	15.94	27.86	1,731.99	3,244.01	2,999.04	2,970.54	28.50	105.213	
3,800.00	3,639.16	4,077.56	4,035.07	19.10	16.34	28.48	1,717.55	3,236.84	2,946.84	2,917.49	29.36	100.374	
3,900.00	3,729.43	4,119.02	4,075.76	19.89	16.53	28.80	1,710.24	3,233.65	2,895.44	2,865.33	30.11	96.150	
4,000.00	3,819.70	4,169.00	4,124.90	20.69	16.76	29.19	1,701.74	3,230.42	2,845.41	2,814.50	30.91	92.062	
4,100.00	3,909.98	4,382.71	4,334.96	21.48	17.76	30.88	1,667.05	3,212.29	2,795.02	2,762.89	32.14	86.974	
4,200.00	4,000.25	4,473.89	4,424.09	22.28	18.21	31.65	1,650.69	3,202.09	2,741.80	2,708.73	33.07	82.915	
4,300.00	4,090.52	4,535.82	4,484.65	23.08	18.51	32.20	1,639.74	3,195.30	2,689.14	2,655.19	33.95	79.210	
4,400.00	4,180.79	4,647.02	4,593.28	23.88	19.06	33.23	1,619.26	3,183.18	2,636.72	2,601.75	34.97	75.402	
4,500.00	4,271.06	4,697.50	4,642.55	24.69	19.31	33.73	1,609.67	3,177.77	2,584.59	2,548.72	35.87	72.048	
4,600.00	4,361.34	4,766.67	4,710.24	25.49	19.65	34.40	1,597.40	3,170.66	2,533.55	2,496.71	36.84	68.780	
4,700.00	4,451.61	4,863.01	4,804.65	26.30	20.13	35.35	1,581.38	3,160.03	2,482.64	2,444.77	37.87	65.557	
4,800.00	4,541.88	4,947.77	4,887.41	27.11	20.55	36.25	1,565.64	3,150.78	2,431.77	2,392.85	38.92	62.487	
4,900.00	4,632.15	5,020.58	4,958.41	27.92	20.91	37.07	1,551.46	3,143.11	2,381.47	2,341.50	39.97	59.577	
5,000.00	4,722.43	5,083.73	5,020.02	28.74	21.23	37.81	1,539.11	3,136.77	2,332.08	2,291.05	41.04	56.829	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,148.78	5,083.54	29.55	21.56	38.60	1,526.49	3,130.65	2,283.79	2,241.66	42.13	54.207	
5,200.00	4,902.97	5,214.65	5,147.96	30.37	21.88	39.41	1,514.07	3,124.75	2,236.58	2,193.33	43.25	51.709	
5,300.00	4,993.24	5,275.93	5,207.97	31.18	22.18	40.18	1,502.73	3,119.68	2,190.61	2,146.22	44.39	49.350	
5,400.00	5,083.51	5,337.64	5,268.45	32.00	22.48	40.97	1,491.38	3,115.10	2,146.01	2,100.45	45.55	47.109	
5,500.00	5,173.79	5,403.46	5,332.98	32.82	22.80	41.85	1,479.18	3,110.82	2,102.84	2,056.08	46.76	44.969	
5,600.00	5,264.06	5,502.95	5,430.47	33.63	23.28	43.22	1,460.55	3,104.01	2,060.13	2,012.02	48.10	42.829	
5,700.00	5,354.33	5,562.34	5,488.71	34.45	23.57	44.07	1,449.57	3,100.07	2,018.49	1,969.13	49.35	40.898	
5,800.00	5,444.60	5,638.80	5,563.80	35.27	23.93	45.17	1,435.85	3,095.54	1,978.36	1,927.68	50.68	39.034	
5,900.00	5,534.88	5,724.35	5,647.90	36.09	24.33	46.43	1,421.09	3,090.29	1,939.04	1,886.98	52.06	37.243	
6,000.00	5,625.15	5,873.58	5,794.55	36.91	25.04	48.71	1,395.91	3,079.04	1,899.90	1,846.25	53.64	35.419	
6,100.00	5,715.42	5,973.39	5,892.24	37.74	25.53	50.33	1,378.21	3,068.84	1,859.21	1,804.07	55.13	33.722	
6,200.00	5,805.69	6,026.65	5,944.43	38.56	25.79	51.22	1,369.00	3,063.58	1,819.81	1,763.27	56.55	32.183	
6,300.00	5,895.96	6,086.62	6,003.36	39.38	26.07	52.22	1,359.19	3,058.27	1,782.47	1,724.47	57.99	30.736	
6,400.00	5,986.24	6,149.00	6,064.81	40.20	26.37	53.27	1,349.62	3,053.49	1,747.22	1,687.76	59.47	29.382	
6,500.00	6,076.51	6,256.43	6,170.72	41.03	26.87	55.12	1,333.74	3,044.90	1,712.88	1,651.81	61.07	28.047	
6,600.00	6,166.78	6,327.88	6,241.06	41.85	27.20	56.40	1,322.78	3,038.93	1,679.55	1,616.92	62.63	26.818	
6,700.00	6,257.05	6,391.91	6,304.13	42.67	27.49	57.58	1,312.88	3,034.08	1,648.24	1,584.06	64.18	25.682	
6,800.00	6,347.33	6,456.63	6,368.07	43.50	27.78	58.77	1,303.70	3,030.02	1,619.26	1,553.53	65.73	24.635	
6,900.00	6,437.60	6,523.47	6,434.25	44.32	28.07	59.99	1,294.94	3,026.65	1,592.58	1,525.30	67.28	23.671	
7,000.00	6,527.87	6,594.94	6,505.15	45.15	28.37	61.29	1,286.43	3,023.89	1,568.12	1,499.30	68.83	22.784	
7,100.00	6,618.14	6,665.62	6,575.41	45.98	28.65	62.57	1,278.99	3,021.96	1,545.80	1,475.45	70.35	21.972	
7,200.00	6,708.41	6,739.67	6,649.12	46.80	28.93	63.90	1,271.94	3,020.89	1,525.73	1,453.86	71.87	21.230	
7,300.00	6,798.69	6,835.21	6,744.35	47.63	29.28	65.59	1,264.26	3,020.17	1,507.31	1,433.87	73.44	20.525	
7,400.00	6,888.96	6,950.27	6,859.25	48.45	29.68	67.57	1,258.61	3,018.15	1,488.43	1,413.42	75.01	19.842	
7,500.00	6,979.23	7,038.57	6,947.52	49.28	29.96	69.04	1,256.68	3,017.03	1,470.55	1,394.08	76.47	19.231	
7,600.00	7,069.50	7,133.33	7,042.26	50.11	30.26	70.61	1,255.58	3,015.99	1,453.65	1,375.74	77.91	18.658	
7,692.09	7,152.63	7,379.65	7,285.62	50.87	30.79	73.71	1,284.68	3,013.46	1,436.46	1,357.88	78.58	18.280	
7,700.00	7,159.79	7,397.77	7,302.86	50.93	30.81	72.40	1,290.24	3,013.37	1,434.34	1,355.77	78.57	18.256	
7,750.00	7,205.70	7,750.00	7,551.22	51.32	30.83	60.23	1,431.95	3,012.50	1,418.17	1,342.70	75.47	18.791	
7,800.00	7,252.52	7,751.78	7,598.28	51.66	30.81	44.62	1,478.27	3,011.91	1,393.52	1,318.28	75.24	18.521	
7,850.00	7,299.89	7,837.70	7,651.56	51.96	30.73	24.80	1,545.60	3,013.26	1,367.13	1,292.71	74.43	18.369	
7,900.00	7,347.44	7,882.87	7,676.69	52.20	30.69	4.46	1,583.13	3,013.95	1,339.32	1,265.02	74.30	18.026	
7,950.00	7,394.83	7,909.76	7,690.65	52.39	30.67	-14.39	1,606.09	3,014.56	1,311.45	1,237.05	74.40	17.627	
8,000.00	7,441.68	7,927.57	7,699.43	52.53	30.65	-30.39	1,621.58	3,015.10	1,284.13	1,209.60	74.53	17.230	
8,050.00	7,487.65	7,939.02	7,704.86	52.62	30.64	-43.25	1,631.66	3,015.50	1,257.83	1,183.22	74.62	16.857	
8,100.00	7,532.37	7,945.40	7,707.81	52.67	30.64	-53.38	1,637.31	3,015.75	1,232.97	1,158.35	74.62	16.523	
8,150.00	7,575.52	7,950.99	7,710.35	52.67	30.63	-61.49	1,642.28	3,015.96	1,209.91	1,135.45	74.46	16.250	
8,200.00	7,616.76	7,944.25	7,707.28	52.63	30.64	-67.42	1,636.28	3,015.70	1,188.94	1,114.60	74.35	15.992	
8,250.00	7,655.77	7,938.68	7,704.70	52.55	30.64	-72.20	1,631.36	3,015.49	1,170.32	1,096.30	74.02	15.811	
8,300.00	7,692.27	7,930.39	7,700.78	52.44	30.65	-75.86	1,624.06	3,015.19	1,154.25	1,080.69	73.56	15.692	
8,350.00	7,725.97	7,919.80	7,695.65	52.29	30.66	-78.60	1,614.80	3,014.85	1,140.88	1,067.91	72.97	15.634	SF
8,400.00	7,756.62	7,907.25	7,689.39	52.12	30.67	-80.56	1,603.93	3,014.50	1,130.31	1,058.04	72.27	15.640	
8,450.00	7,783.98	7,892.47	7,681.76	51.92	30.68	-81.84	1,591.28	3,014.15	1,122.60	1,051.11	71.49	15.704	
8,500.00	7,807.85	7,874.55	7,672.21	51.70	30.70	-82.47	1,576.11	3,013.80	1,117.71	1,047.05	70.66	15.818	
8,550.00	7,828.05	7,855.23	7,661.55	51.45	30.72	-82.58	1,560.00	3,013.50	1,115.56	1,045.77	69.79	15.984	ES
8,565.52	7,833.54	7,848.66	7,657.84	51.37	30.72	-82.51	1,554.58	3,013.41	1,115.44	1,045.91	69.53	16.043	CC
8,600.00	7,844.41	7,830.00	7,647.08	51.20	30.74	-82.05	1,539.34	3,013.15	1,116.01	1,047.03	68.98	16.178	
8,650.00	7,856.82	7,803.00	7,630.92	50.93	30.77	-81.10	1,517.72	3,012.72	1,118.78	1,050.59	68.18	16.408	
8,700.00	7,865.18	7,778.47	7,615.61	50.65	30.79	-79.93	1,498.55	3,012.31	1,123.74	1,056.36	67.37	16.679	
8,750.00	7,869.43	7,756.00	7,601.07	50.36	30.81	-78.54	1,481.43	3,011.96	1,130.76	1,064.16	66.59	16.980	
8,776.25	7,870.00	7,756.00	7,601.07	50.21	30.81	-78.10	1,481.43	3,011.96	1,135.34	1,069.24	66.10	17.176	
8,800.00	7,870.00	7,738.92	7,589.63	50.08	30.82	-77.52	1,468.75	3,011.82	1,139.75	1,073.91	65.84	17.311	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,708.00	7,567.95	49.53	30.85	-76.45	1,446.71	3,012.08	1,162.68	1,098.10	64.57	18.006	
9,000.00	7,870.00	7,671.92	7,541.14	49.01	30.87	-75.14	1,422.58	3,012.76	1,191.63	1,127.93	63.70	18.708	
9,100.00	7,870.00	7,636.68	7,513.56	48.52	30.88	-73.80	1,400.66	3,013.38	1,226.17	1,163.00	63.16	19.412	
9,200.00	7,870.00	7,603.73	7,486.83	48.06	30.89	-72.53	1,381.41	3,013.97	1,266.04	1,203.08	62.96	20.108	
9,300.00	7,870.00	7,567.00	7,456.03	47.63	30.89	-71.08	1,361.42	3,014.48	1,310.99	1,247.94	63.04	20.795	
9,400.00	7,870.00	7,541.47	7,434.01	47.22	30.89	-70.06	1,348.50	3,014.59	1,360.56	1,297.18	63.38	21.467	
9,500.00	7,870.00	7,519.00	7,414.24	46.83	30.88	-69.15	1,337.83	3,014.39	1,414.46	1,350.55	63.91	22.131	
9,600.00	7,870.00	7,494.28	7,392.12	46.48	30.87	-68.13	1,326.80	3,014.03	1,472.44	1,407.87	64.57	22.804	
9,700.00	7,870.00	7,472.00	7,371.90	46.14	30.87	-67.22	1,317.44	3,013.72	1,534.24	1,468.92	65.32	23.487	
9,800.00	7,870.00	7,472.00	7,371.90	45.83	30.87	-67.22	1,317.44	3,013.72	1,599.56	1,533.34	66.22	24.154	
9,900.00	7,870.00	7,445.41	7,347.46	45.54	30.85	-66.14	1,306.98	3,013.45	1,667.74	1,600.73	67.02	24.885	
10,000.00	7,870.00	7,425.00	7,328.49	45.27	30.84	-65.31	1,299.46	3,013.36	1,738.85	1,671.01	67.84	25.633	
10,100.00	7,870.00	7,425.00	7,328.49	45.03	30.84	-65.31	1,299.46	3,013.36	1,812.37	1,743.65	68.72	26.372	
10,200.00	7,870.00	7,425.00	7,328.49	44.82	30.84	-65.31	1,299.46	3,013.36	1,888.33	1,818.75	69.57	27.141	
10,300.00	7,870.00	7,400.78	7,305.72	44.66	30.81	-64.33	1,291.21	3,013.37	1,965.89	1,895.60	70.29	27.969	
10,400.00	7,870.00	7,378.00	7,284.04	44.56	30.79	-63.42	1,284.20	3,013.47	2,045.65	1,974.67	70.97	28.822	
10,500.00	7,870.00	7,378.00	7,284.04	44.58	30.79	-63.42	1,284.20	3,013.47	2,126.67	2,054.96	71.70	29.659	
10,600.00	7,870.00	7,378.00	7,284.04	44.82	30.79	-63.42	1,284.20	3,013.47	2,209.24	2,136.85	72.39	30.519	
10,700.00	7,870.00	7,378.00	7,284.04	45.36	30.79	-63.42	1,284.20	3,013.47	2,293.21	2,220.18	73.03	31.402	
10,800.00	7,870.00	7,361.66	7,268.36	46.15	30.77	-62.77	1,279.61	3,013.58	2,378.19	2,304.62	73.58	32.322	
10,900.00	7,870.00	7,354.87	7,261.81	47.09	30.76	-62.50	1,277.81	3,013.62	2,464.29	2,390.17	74.12	33.247	
11,000.00	7,870.00	7,348.50	7,255.66	48.13	30.75	-62.25	1,276.17	3,013.67	2,551.34	2,476.71	74.63	34.186	
11,100.00	7,870.00	7,331.00	7,238.68	49.22	30.73	-61.56	1,271.94	3,013.79	2,639.35	2,564.27	75.08	35.152	
11,200.00	7,870.00	7,331.00	7,238.68	50.37	30.73	-61.56	1,271.94	3,013.79	2,727.96	2,652.42	75.55	36.110	
11,300.00	7,870.00	7,331.00	7,238.68	51.55	30.73	-61.56	1,271.94	3,013.79	2,817.33	2,741.35	75.98	37.080	
11,400.00	7,870.00	7,331.00	7,238.68	52.76	30.73	-61.56	1,271.94	3,013.79	2,907.40	2,831.01	76.39	38.062	
11,500.00	7,870.00	7,331.00	7,238.68	54.00	30.73	-61.56	1,271.94	3,013.79	2,998.09	2,921.32	76.77	39.054	
11,600.00	7,870.00	7,331.00	7,238.68	55.27	30.73	-61.56	1,271.94	3,013.79	3,089.36	3,012.23	77.12	40.057	
11,700.00	7,870.00	7,331.00	7,238.68	56.56	30.73	-61.56	1,271.94	3,013.79	3,181.15	3,103.69	77.46	41.068	
11,800.00	7,870.00	7,331.00	7,238.68	57.88	30.73	-61.56	1,271.94	3,013.79	3,273.43	3,195.65	77.78	42.088	
11,900.00	7,870.00	7,310.93	7,219.07	59.21	30.70	-60.78	1,267.66	3,013.97	3,365.74	3,287.69	78.05	43.124	
12,000.00	7,870.00	7,308.10	7,216.29	60.57	30.69	-60.67	1,267.11	3,014.00	3,458.74	3,380.41	78.33	44.158	
12,100.00	7,870.00	7,305.41	7,213.65	61.94	30.69	-60.56	1,266.60	3,014.03	3,552.10	3,473.51	78.59	45.197	
12,200.00	7,870.00	7,284.00	7,192.55	63.33	30.65	-59.74	1,263.01	3,014.30	3,646.16	3,567.34	78.82	46.259	
12,300.00	7,870.00	7,284.00	7,192.55	64.74	30.65	-59.74	1,263.01	3,014.30	3,740.09	3,661.03	79.06	47.305	
12,400.00	7,870.00	7,284.00	7,192.55	66.16	30.65	-59.74	1,263.01	3,014.30	3,834.33	3,755.04	79.29	48.356	
12,500.00	7,870.00	7,284.00	7,192.55	67.59	30.65	-59.74	1,263.01	3,014.30	3,928.85	3,849.34	79.51	49.412	
12,600.00	7,870.00	7,284.00	7,192.55	69.04	30.65	-59.74	1,263.01	3,014.30	4,023.64	3,943.92	79.72	50.472	
12,700.00	7,870.00	7,284.00	7,192.55	70.51	30.65	-59.74	1,263.01	3,014.30	4,118.68	4,038.76	79.92	51.536	
12,800.00	7,870.00	7,284.00	7,192.55	71.98	30.65	-59.74	1,263.01	3,014.30	4,213.94	4,133.83	80.11	52.603	
12,900.00	7,870.00	7,284.00	7,192.55	73.47	30.65	-59.74	1,263.01	3,014.30	4,309.42	4,229.13	80.29	53.674	
13,000.00	7,870.00	7,284.00	7,192.55	74.96	30.65	-59.74	1,263.01	3,014.30	4,405.10	4,324.64	80.46	54.747	
13,100.00	7,870.00	7,284.00	7,192.55	76.47	30.65	-59.74	1,263.01	3,014.30	4,500.97	4,420.34	80.63	55.824	
13,200.00	7,870.00	7,284.00	7,192.55	77.99	30.65	-59.74	1,263.01	3,014.30	4,597.01	4,516.23	80.79	56.903	
13,300.00	7,870.00	7,284.00	7,192.55	79.51	30.65	-59.74	1,263.01	3,014.30	4,693.22	4,612.28	80.94	57.984	
13,400.00	7,870.00	7,284.00	7,192.55	81.05	30.65	-59.74	1,263.01	3,014.30	4,789.59	4,708.50	81.09	59.067	
13,500.00	7,870.00	7,284.00	7,192.55	82.59	30.65	-59.74	1,263.01	3,014.30	4,886.10	4,804.87	81.23	60.153	
13,600.00	7,870.00	7,284.00	7,192.55	84.14	30.65	-59.74	1,263.01	3,014.30	4,982.74	4,901.38	81.36	61.240	
13,700.00	7,870.00	7,284.00	7,192.55	85.70	30.65	-59.74	1,263.01	3,014.30	5,079.52	4,998.03	81.50	62.328	
13,800.00	7,870.00	7,284.00	7,192.55	87.26	30.65	-59.74	1,263.01	3,014.30	5,176.42	5,094.80	81.62	63.418	
13,900.00	7,870.00	7,284.00	7,192.55	88.83	30.65	-59.74	1,263.01	3,014.30	5,273.44	5,191.69	81.75	64.510	
14,000.00	7,870.00	7,284.00	7,192.55	90.41	30.65	-59.74	1,263.01	3,014.30	5,370.56	5,288.70	81.87	65.602	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 25-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,284.00	7,192.55	92.00	30.65	-59.74	1,263.01	3,014.30	5,467.79	5,385.81	81.98	66.696	
14,200.00	7,870.00	7,284.00	7,192.55	93.59	30.65	-59.74	1,263.01	3,014.30	5,565.12	5,483.03	82.09	67.790	
14,300.00	7,870.00	7,284.00	7,192.55	95.18	30.65	-59.74	1,263.01	3,014.30	5,662.54	5,580.34	82.20	68.885	
14,400.00	7,870.00	7,284.00	7,192.55	96.79	30.65	-59.74	1,263.01	3,014.30	5,760.05	5,677.74	82.31	69.981	
14,500.00	7,870.00	7,284.00	7,192.55	98.39	30.65	-59.74	1,263.01	3,014.30	5,857.64	5,775.23	82.41	71.078	
14,600.00	7,870.00	7,284.00	7,192.55	100.00	30.65	-59.74	1,263.01	3,014.30	5,955.31	5,872.80	82.51	72.175	
14,700.00	7,870.00	7,284.00	7,192.55	101.62	30.65	-59.74	1,263.01	3,014.30	6,053.06	5,970.45	82.61	73.273	
14,800.00	7,870.00	7,284.00	7,192.55	103.24	30.65	-59.74	1,263.01	3,014.30	6,150.88	6,068.18	82.71	74.370	
14,900.00	7,870.00	7,284.00	7,192.55	104.87	30.65	-59.74	1,263.01	3,014.30	6,248.77	6,165.98	82.80	75.469	
15,000.00	7,870.00	7,284.00	7,192.55	106.50	30.65	-59.74	1,263.01	3,014.30	6,346.73	6,263.84	82.89	76.567	
15,100.00	7,870.00	7,284.00	7,192.55	108.13	30.65	-59.74	1,263.01	3,014.30	6,444.75	6,361.77	82.98	77.666	
15,200.00	7,870.00	7,284.00	7,192.55	109.77	30.65	-59.74	1,263.01	3,014.30	6,542.83	6,459.76	83.07	78.764	
15,300.00	7,870.00	7,284.00	7,192.55	111.41	30.65	-59.74	1,263.01	3,014.30	6,640.96	6,557.81	83.15	79.863	
15,400.00	7,870.00	7,284.00	7,192.55	113.05	30.65	-59.74	1,263.01	3,014.30	6,739.15	6,655.92	83.24	80.961	
15,500.00	7,870.00	7,284.00	7,192.55	114.70	30.65	-59.74	1,263.01	3,014.30	6,837.40	6,754.08	83.32	82.060	
15,600.00	7,870.00	7,284.00	7,192.55	116.35	30.65	-59.74	1,263.01	3,014.30	6,935.69	6,852.29	83.40	83.158	
15,700.00	7,870.00	7,284.00	7,192.55	118.00	30.65	-59.74	1,263.01	3,014.30	7,034.03	6,950.55	83.48	84.256	
15,800.00	7,870.00	7,284.00	7,192.55	119.66	30.65	-59.74	1,263.01	3,014.30	7,132.42	7,048.86	83.56	85.354	
15,900.00	7,870.00	7,284.00	7,192.55	121.32	30.65	-59.74	1,263.01	3,014.30	7,230.85	7,147.21	83.64	86.451	
16,000.00	7,870.00	7,284.00	7,192.55	122.98	30.65	-59.74	1,263.01	3,014.30	7,329.33	7,245.61	83.72	87.548	
16,100.00	7,870.00	7,284.00	7,192.55	124.65	30.65	-59.74	1,263.01	3,014.30	7,427.84	7,344.05	83.79	88.645	
16,200.00	7,870.00	7,284.00	7,192.55	126.32	30.65	-59.74	1,263.01	3,014.30	7,526.40	7,442.53	83.87	89.741	
16,300.00	7,870.00	7,284.00	7,192.55	127.99	30.65	-59.74	1,263.01	3,014.30	7,624.99	7,541.05	83.94	90.836	
16,400.00	7,870.00	7,284.00	7,192.55	129.66	30.65	-59.74	1,263.01	3,014.30	7,723.62	7,639.60	84.01	91.932	
16,500.00	7,870.00	7,284.00	7,192.55	131.33	30.65	-59.74	1,263.01	3,014.30	7,822.28	7,738.19	84.09	93.026	
16,600.00	7,870.00	7,284.00	7,192.55	133.01	30.65	-59.74	1,263.01	3,014.30	7,920.97	7,836.82	84.16	94.120	
16,700.00	7,870.00	7,284.00	7,192.55	134.69	30.65	-59.74	1,263.01	3,014.30	8,019.70	7,935.47	84.23	95.213	
16,800.00	7,870.00	7,284.00	7,192.55	136.37	30.65	-59.74	1,263.01	3,014.30	8,118.46	8,034.16	84.30	96.305	
16,900.00	7,870.00	7,284.00	7,192.55	138.06	30.65	-59.74	1,263.01	3,014.30	8,217.25	8,132.89	84.37	97.397	
17,000.00	7,870.00	7,284.00	7,192.55	139.74	30.65	-59.74	1,263.01	3,014.30	8,316.07	8,231.64	84.44	98.488	
17,100.00	7,870.00	7,240.20	7,149.06	141.43	30.55	-58.08	1,257.91	3,014.88	8,413.37	8,328.87	84.50	99.569	
17,200.00	7,870.00	7,239.59	7,148.46	143.12	30.54	-58.06	1,257.86	3,014.89	8,512.20	8,427.64	84.57	100.658	
17,300.00	7,870.00	7,239.00	7,147.86	144.81	30.54	-58.04	1,257.81	3,014.90	8,611.06	8,526.43	84.63	101.746	
17,400.00	7,870.00	7,238.42	7,147.29	146.50	30.54	-58.01	1,257.76	3,014.90	8,709.94	8,625.24	84.70	102.834	
17,500.00	7,870.00	7,237.85	7,146.72	148.19	30.54	-57.99	1,257.71	3,014.91	8,808.85	8,724.09	84.77	103.920	
17,600.00	7,870.00	7,237.29	7,146.16	149.89	30.54	-57.97	1,257.67	3,014.92	8,907.78	8,822.95	84.83	105.005	
17,700.00	7,870.00	7,236.75	7,145.62	151.59	30.54	-57.95	1,257.63	3,014.92	9,006.74	8,921.84	84.90	106.090	
17,800.00	7,870.00	7,236.21	7,145.09	153.29	30.54	-57.93	1,257.59	3,014.93	9,105.72	9,020.75	84.96	107.173	
17,900.00	7,870.00	7,235.69	7,144.57	154.99	30.53	-57.91	1,257.55	3,014.94	9,204.71	9,119.69	85.03	108.255	
18,000.00	7,870.00	7,235.18	7,144.06	156.69	30.53	-57.89	1,257.51	3,014.94	9,303.73	9,218.64	85.09	109.337	
18,100.00	7,870.00	7,234.68	7,143.56	158.39	30.53	-57.88	1,257.47	3,014.95	9,402.78	9,317.62	85.16	110.417	
18,200.00	7,870.00	7,234.19	7,143.07	160.09	30.53	-57.86	1,257.43	3,014.95	9,501.84	9,416.61	85.22	111.496	
18,300.00	7,870.00	7,233.70	7,142.59	161.80	30.53	-57.84	1,257.40	3,014.96	9,600.91	9,515.63	85.29	112.574	
18,400.00	7,870.00	7,233.23	7,142.11	163.51	30.53	-57.82	1,257.36	3,014.97	9,700.01	9,614.66	85.35	113.651	
18,455.45	7,870.00	7,232.97	7,141.86	164.45	30.53	-57.81	1,257.34	3,014.97	9,754.97	9,669.59	85.38	114.248	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	174.51	-4,018.83	386.19	4,037.37				
100.00	100.00	52.33	52.33	0.13	0.09	174.51	-4,019.01	386.42	4,037.67	4,037.45	0.22	N/A	
200.00	200.00	120.00	119.99	0.49	0.20	174.49	-4,019.79	387.43	4,038.93	4,038.24	0.69	5,879.815	
300.00	300.00	290.83	290.79	0.85	0.81	174.46	-4,021.16	390.25	4,040.05	4,038.40	1.66	2,440.398	
400.00	400.00	408.98	408.93	1.21	1.22	174.44	-4,020.48	391.28	4,039.55	4,037.12	2.43	1,661.325	
500.00	500.00	508.87	508.79	1.57	1.58	174.41	-4,019.71	393.45	4,039.00	4,035.85	3.15	1,283.350	
600.00	600.00	600.00	737.53	1.93	1.91	174.14	-4,012.86	411.67	4,036.84	4,033.01	3.83	1,054.396	
700.00	700.00	972.06	967.75	2.29	3.40	173.62	-3,996.03	446.59	4,030.90	4,025.23	5.67	710.676	
800.00	800.00	1,074.68	1,068.13	2.64	3.86	173.34	-3,986.51	465.64	4,023.65	4,017.17	6.49	620.337	
900.00	900.00	1,151.79	1,143.41	3.00	4.22	173.11	-3,979.61	480.85	4,016.94	4,009.74	7.20	557.809	
1,000.00	1,000.00	1,293.83	1,282.40	3.36	4.89	172.71	-3,966.64	507.08	4,010.04	4,001.82	8.22	488.082	
1,100.00	1,100.00	1,362.48	1,349.67	3.72	5.21	172.53	-3,960.28	519.21	4,003.00	3,994.10	8.89	450.097	
1,200.00	1,200.00	1,482.43	1,466.93	4.08	5.79	172.19	-3,949.21	541.88	3,996.24	3,986.42	9.82	406.849	
1,300.00	1,300.00	1,613.17	1,594.27	4.44	6.45	171.78	-3,935.79	568.28	3,988.69	3,977.86	10.83	368.467	
1,400.00	1,399.98	1,731.55	1,709.24	4.79	7.06	128.59	-3,922.83	593.39	3,981.84	3,970.07	11.78	338.076	
1,500.00	1,499.84	1,826.99	1,802.19	5.15	7.55	128.43	-3,912.26	612.27	3,976.96	3,964.35	12.61	315.383	
1,600.00	1,599.45	1,906.87	1,880.08	5.51	7.95	128.30	-3,903.70	627.74	3,974.60	3,961.23	13.37	297.301	
1,634.95	1,634.19	1,933.96	1,906.49	5.63	8.09	128.25	-3,900.88	633.12	3,974.42	3,960.79	13.63	291.551	
1,700.00	1,698.70	2,000.02	1,970.88	5.87	8.43	128.14	-3,894.06	646.20	3,974.86	3,960.66	14.20	279.934	
1,800.00	1,797.47	2,101.52	2,069.79	6.24	8.95	127.97	-3,883.51	666.39	3,977.27	3,962.19	15.08	263.676	
1,900.00	1,895.62	2,202.05	2,167.40	6.63	9.48	127.78	-3,872.81	687.89	3,981.82	3,965.83	15.99	249.041	
2,000.00	1,993.06	2,308.48	2,270.63	7.04	10.05	127.59	-3,861.32	711.16	3,988.43	3,971.49	16.94	235.381	
2,100.00	2,089.64	2,442.76	2,400.92	7.48	10.77	127.42	-3,846.12	739.84	3,996.55	3,978.50	18.06	221.328	
2,200.00	2,185.27	2,531.83	2,487.39	7.94	11.25	127.26	-3,835.74	758.53	4,006.45	3,987.49	18.96	211.310	
2,300.00	2,279.82	2,300.00	2,602.68	8.45	9.98	127.11	-3,822.05	784.70	4,018.77	4,000.59	18.18	221.032	
2,400.00	2,373.17	2,787.00	2,734.74	8.99	12.63	127.02	-3,804.70	812.89	4,031.57	4,010.33	21.24	189.826	
2,500.00	2,465.21	2,836.87	2,783.19	9.58	12.89	126.84	-3,798.59	823.00	4,047.12	4,025.10	22.02	183.829	
2,574.08	2,532.50	2,881.00	2,826.09	10.04	13.12	126.69	-3,793.79	832.16	4,060.88	4,038.23	22.65	179.324	
2,600.00	2,555.89	2,881.00	2,826.09	10.21	13.12	126.69	-3,793.79	832.16	4,066.01	4,043.22	22.79	178.418	
2,700.00	2,646.16	3,016.34	2,957.49	10.88	13.85	126.93	-3,778.96	860.96	4,085.44	4,061.37	24.06	169.771	
2,800.00	2,736.44	3,090.38	3,029.24	11.57	14.26	127.05	-3,770.66	877.26	4,104.85	4,079.81	25.04	163.948	
2,900.00	2,826.71	3,141.48	3,078.78	12.27	14.54	127.14	-3,765.42	888.64	4,125.22	4,099.33	25.90	159.290	
3,000.00	2,916.98	3,298.71	3,231.01	13.00	15.40	127.38	-3,749.12	924.41	4,145.64	4,118.28	27.36	151.534	
3,100.00	3,007.25	3,392.82	3,322.10	13.73	15.93	127.52	-3,738.63	945.62	4,165.24	4,136.76	28.48	146.254	
3,200.00	3,097.52	3,497.58	3,423.53	14.48	16.51	127.68	-3,727.02	969.12	4,184.92	4,155.25	29.66	141.074	
3,300.00	3,187.80	3,590.02	3,513.08	15.23	17.02	127.82	-3,716.57	989.53	4,204.37	4,173.59	30.78	136.575	
3,400.00	3,278.07	3,669.88	3,590.54	15.99	17.45	127.95	-3,707.96	1,006.90	4,224.29	4,192.46	31.83	132.695	
3,500.00	3,368.34	3,754.56	3,672.77	16.76	17.91	128.09	-3,699.05	1,025.07	4,244.50	4,211.59	32.91	128.973	
3,600.00	3,458.61	3,827.00	3,743.25	17.54	18.29	128.21	-3,691.88	1,040.21	4,265.24	4,231.32	33.91	125.764	
3,700.00	3,548.89	3,903.12	3,817.53	18.32	18.68	128.35	-3,684.83	1,055.27	4,286.53	4,251.61	34.92	122.736	
3,800.00	3,639.16	3,981.39	3,894.20	19.10	19.07	128.51	-3,678.07	1,069.44	4,308.28	4,272.36	35.93	119.914	
3,900.00	3,729.43	4,046.52	3,958.26	19.89	19.37	128.66	-3,672.88	1,080.01	4,330.58	4,293.73	36.85	117.532	
4,000.00	3,819.70	4,111.00	4,021.90	20.69	19.66	128.83	-3,668.52	1,089.44	4,353.82	4,316.07	37.75	115.347	
4,100.00	3,909.98	4,167.11	4,077.44	21.48	19.90	128.99	-3,665.27	1,096.65	4,377.89	4,339.32	38.58	113.481	
4,200.00	4,000.25	4,261.59	4,171.30	22.28	20.26	129.28	-3,660.45	1,106.34	4,402.54	4,362.98	39.56	111.288	
4,300.00	4,090.52	4,340.88	4,250.27	23.08	20.55	129.55	-3,656.46	1,112.21	4,427.15	4,386.71	40.44	109.465	
4,400.00	4,180.79	4,394.00	4,303.26	23.88	20.73	129.75	-3,654.25	1,115.16	4,452.59	4,411.38	41.21	108.055	
4,500.00	4,271.06	4,441.50	4,350.69	24.69	20.88	129.93	-3,652.78	1,117.17	4,479.07	4,437.15	41.92	106.836	
4,600.00	4,361.34	4,488.00	4,397.16	25.49	21.02	130.11	-3,651.95	1,118.62	4,506.75	4,464.12	42.63	105.718	
4,700.00	4,451.61	4,564.31	4,473.45	26.30	21.24	130.42	-3,651.14	1,120.29	4,535.25	4,491.82	43.43	104.433	
4,800.00	4,541.88	4,660.81	4,569.93	27.11	21.52	130.82	-3,650.18	1,122.03	4,564.00	4,519.71	44.29	103.037	
4,900.00	4,632.15	4,748.99	4,658.09	27.92	21.78	131.17	-3,649.23	1,123.84	4,592.87	4,547.74	45.13	101.764	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,838.92	4,747.99	28.74	22.04	131.52	-3,648.32	1,125.92	4,622.00	4,576.02	45.98	100.525	
5,100.00	4,812.70	4,938.62	4,847.65	29.55	22.34	131.90	-3,647.23	1,128.52	4,651.24	4,604.38	46.86	99.249	
5,200.00	4,902.97	5,029.97	4,938.96	30.37	22.62	132.24	-3,646.10	1,130.93	4,680.53	4,632.81	47.72	98.088	
5,300.00	4,993.24	5,134.09	5,043.04	31.18	22.94	132.64	-3,644.75	1,133.44	4,709.92	4,661.31	48.62	96.877	
5,400.00	5,083.51	5,238.97	5,147.89	32.00	23.25	133.03	-3,643.07	1,135.27	4,739.18	4,689.67	49.51	95.720	
5,500.00	5,173.79	5,322.09	5,231.00	32.82	23.49	133.35	-3,641.70	1,136.01	4,768.56	4,718.25	50.31	94.784	
5,600.00	5,264.06	5,393.81	5,302.71	33.63	23.70	133.63	-3,640.72	1,136.17	4,798.37	4,747.32	51.05	93.988	
5,700.00	5,354.33	5,462.67	5,371.57	34.45	23.89	133.90	-3,640.09	1,135.84	4,828.77	4,776.99	51.77	93.267	
5,800.00	5,444.60	5,532.86	5,441.76	35.27	24.07	134.18	-3,639.77	1,135.32	4,859.75	4,807.26	52.49	92.587	
5,900.00	5,534.88	5,627.18	5,536.07	36.09	24.32	134.55	-3,639.48	1,134.55	4,891.05	4,837.77	53.29	91.789	
6,000.00	5,625.15	5,718.97	5,627.85	36.91	24.57	134.90	-3,639.14	1,133.64	4,922.49	4,868.42	54.07	91.037	
6,100.00	5,715.42	5,820.05	5,728.93	37.74	24.84	135.29	-3,638.62	1,132.41	4,953.99	4,899.10	54.89	90.256	
6,200.00	5,805.69	5,900.74	5,809.61	38.56	25.05	135.60	-3,638.22	1,131.28	4,985.67	4,930.04	55.63	89.626	
6,300.00	5,895.96	6,000.82	5,909.67	39.38	25.32	135.98	-3,637.69	1,129.80	5,017.51	4,961.07	56.44	88.904	
6,400.00	5,986.24	6,114.70	6,023.54	40.20	25.64	136.40	-3,636.65	1,128.58	5,049.16	4,991.85	57.31	88.105	
6,500.00	6,076.51	6,205.66	6,114.49	41.03	25.91	136.73	-3,635.70	1,128.15	5,080.84	5,022.74	58.10	87.449	
6,600.00	6,166.78	6,321.71	6,230.53	41.85	26.25	137.14	-3,634.17	1,127.91	5,112.43	5,053.44	59.00	86.655	
6,700.00	6,257.05	6,427.16	6,335.97	42.67	26.56	137.51	-3,632.29	1,127.34	5,143.76	5,083.91	59.85	85.949	
6,800.00	6,347.33	6,517.76	6,426.55	43.50	26.83	137.82	-3,630.55	1,126.33	5,175.15	5,114.52	60.63	85.357	
6,900.00	6,437.60	6,608.43	6,517.19	44.32	27.09	138.14	-3,628.83	1,125.24	5,206.73	5,145.32	61.41	84.787	
7,000.00	6,527.87	6,682.28	6,591.02	45.15	27.31	138.39	-3,627.45	1,124.57	5,238.49	5,176.36	62.12	84.325	
7,100.00	6,618.14	6,729.09	6,637.83	45.98	27.45	138.55	-3,626.90	1,124.15	5,271.01	5,208.29	62.72	84.041	
7,200.00	6,708.41	6,801.75	6,710.49	46.80	27.66	138.80	-3,626.60	1,123.42	5,304.34	5,240.93	63.42	83.644	
7,300.00	6,798.69	6,897.39	6,806.12	47.63	27.94	139.12	-3,626.10	1,122.46	5,337.74	5,273.53	64.20	83.136	
7,400.00	6,888.96	6,993.29	6,902.02	48.45	28.22	139.43	-3,625.63	1,121.93	5,371.28	5,306.27	65.00	82.632	
7,500.00	6,979.23	7,079.84	6,988.57	49.28	28.48	139.70	-3,625.11	1,121.86	5,404.80	5,339.04	65.77	82.181	
7,600.00	7,069.50	7,163.04	7,071.77	50.11	28.74	139.96	-3,624.86	1,121.87	5,438.72	5,372.20	66.52	81.762	
7,692.09	7,152.63	7,265.31	7,174.03	50.87	29.06	140.28	-3,624.27	1,121.92	5,469.81	5,402.49	67.32	81.245	
7,700.00	7,159.79	7,272.33	7,181.06	50.93	29.08	139.06	-3,624.22	1,121.92	5,472.43	5,405.05	67.39	81.210	
7,750.00	7,205.70	7,317.36	7,226.08	51.32	29.22	129.98	-3,623.91	1,121.88	5,486.62	5,418.84	67.77	80.955	
7,800.00	7,252.52	7,369.29	7,278.01	51.66	29.38	118.29	-3,623.54	1,121.85	5,496.61	5,428.42	68.19	80.609	
7,850.00	7,299.89	7,422.76	7,331.47	51.96	29.55	104.16	-3,623.12	1,121.95	5,502.31	5,433.70	68.61	80.202	
7,900.00	7,347.44	7,465.11	7,373.83	52.20	29.68	88.92	-3,622.78	1,122.03	5,503.73	5,434.76	68.96	79.809	
7,950.00	7,394.83	7,508.34	7,417.06	52.39	29.82	74.75	-3,622.46	1,122.05	5,500.89	5,431.58	69.30	79.372	
8,000.00	7,441.68	7,558.37	7,467.08	52.53	29.97	63.12	-3,622.11	1,122.09	5,493.79	5,424.12	69.66	78.862	
8,050.00	7,487.65	7,608.25	7,516.97	52.62	30.13	54.25	-3,621.73	1,122.24	5,482.45	5,412.44	70.00	78.317	
8,100.00	7,532.37	7,664.10	7,572.81	52.67	30.31	47.73	-3,621.24	1,122.49	5,466.92	5,396.56	70.36	77.702	
8,150.00	7,575.52	7,717.84	7,626.55	52.67	30.48	43.00	-3,620.66	1,122.76	5,447.31	5,376.62	70.69	77.063	
8,200.00	7,616.76	7,742.53	7,651.24	52.63	30.56	39.49	-3,620.45	1,122.91	5,423.91	5,353.04	70.87	76.534	
8,250.00	7,655.77	7,772.71	7,681.41	52.55	30.66	37.04	-3,620.21	1,123.09	5,396.88	5,325.82	71.07	75.943	
8,300.00	7,692.27	7,801.82	7,710.52	52.44	30.75	35.41	-3,620.03	1,123.28	5,366.44	5,295.20	71.25	75.324	
8,350.00	7,725.97	7,831.06	7,739.76	52.29	30.84	34.49	-3,619.88	1,123.47	5,332.79	5,261.37	71.42	74.671	
8,400.00	7,756.62	7,857.68	7,766.38	52.12	30.93	34.22	-3,619.77	1,123.64	5,296.15	5,224.59	71.57	74.001	
8,450.00	7,783.98	7,881.46	7,790.16	51.92	31.00	34.63	-3,619.68	1,123.79	5,256.82	5,185.11	71.70	73.315	
8,500.00	7,807.85	7,904.03	7,812.73	51.70	31.08	35.83	-3,619.61	1,123.93	5,215.05	5,143.23	71.83	72.606	
8,550.00	7,828.05	7,923.82	7,832.52	51.45	31.14	38.05	-3,619.55	1,124.06	5,171.17	5,099.23	71.94	71.885	
8,600.00	7,844.41	7,939.84	7,848.54	51.20	31.19	41.76	-3,619.50	1,124.18	5,125.49	5,053.46	72.03	71.158	
8,650.00	7,856.82	7,951.97	7,860.66	50.93	31.23	47.89	-3,619.47	1,124.27	5,078.35	5,006.25	72.11	70.428	
8,700.00	7,865.18	7,960.10	7,868.79	50.65	31.25	58.42	-3,619.45	1,124.33	5,030.12	4,957.95	72.17	69.698	
8,750.00	7,869.43	7,964.16	7,872.86	50.36	31.27	77.09	-3,619.44	1,124.37	4,981.13	4,908.91	72.22	68.972	
8,776.25	7,870.00	7,964.66	7,873.36	50.21	31.27	91.42	-3,619.44	1,124.37	4,955.24	4,883.00	72.24	68.594	
8,800.00	7,870.00	7,964.60	7,873.29	50.08	31.27	91.42	-3,619.44	1,124.37	4,931.79	4,859.53	72.26	68.253	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,964.33	7,873.03	49.53	31.27	91.40	-3,619.44	1,124.37	4,833.07	4,760.74	72.33	66.816	
9,000.00	7,870.00	7,964.06	7,872.76	49.01	31.27	91.38	-3,619.44	1,124.37	4,734.41	4,662.00	72.41	65.379	
9,100.00	7,870.00	7,963.80	7,872.50	48.52	31.27	91.36	-3,619.44	1,124.36	4,635.80	4,563.30	72.50	63.941	
9,200.00	7,870.00	7,963.53	7,872.23	48.06	31.27	91.34	-3,619.44	1,124.36	4,537.26	4,464.66	72.59	62.502	
9,300.00	7,870.00	7,963.26	7,871.96	47.63	31.26	91.32	-3,619.44	1,124.36	4,438.78	4,366.09	72.69	61.062	
9,400.00	7,870.00	7,963.00	7,871.70	47.22	31.26	91.30	-3,619.44	1,124.36	4,340.37	4,267.57	72.80	59.622	
9,500.00	7,870.00	7,962.73	7,871.43	46.83	31.26	91.28	-3,619.44	1,124.35	4,242.03	4,169.12	72.91	58.180	
9,600.00	7,870.00	7,962.46	7,871.16	46.48	31.26	91.26	-3,619.44	1,124.35	4,143.77	4,070.74	73.03	56.739	
9,700.00	7,870.00	7,962.19	7,870.89	46.14	31.26	91.24	-3,619.44	1,124.35	4,045.60	3,972.44	73.16	55.297	
9,800.00	7,870.00	7,961.92	7,870.62	45.83	31.26	91.22	-3,619.44	1,124.35	3,947.52	3,874.22	73.30	53.854	
9,900.00	7,870.00	7,961.66	7,870.35	45.54	31.26	91.20	-3,619.44	1,124.35	3,849.54	3,776.09	73.45	52.411	
10,000.00	7,870.00	7,961.39	7,870.08	45.27	31.26	91.18	-3,619.44	1,124.34	3,751.67	3,678.06	73.61	50.968	
10,100.00	7,870.00	7,961.12	7,869.81	45.03	31.26	91.16	-3,619.44	1,124.34	3,653.91	3,580.13	73.78	49.525	
10,200.00	7,870.00	7,960.85	7,869.54	44.82	31.26	91.14	-3,619.45	1,124.34	3,556.27	3,482.31	73.96	48.082	
10,300.00	7,870.00	7,960.58	7,869.27	44.66	31.26	91.12	-3,619.45	1,124.34	3,458.77	3,384.61	74.16	46.640	
10,400.00	7,870.00	7,960.31	7,869.00	44.56	31.26	91.10	-3,619.45	1,124.34	3,361.42	3,287.05	74.37	45.197	
10,500.00	7,870.00	7,960.03	7,868.73	44.58	31.25	91.08	-3,619.45	1,124.33	3,264.23	3,189.63	74.60	43.756	
10,600.00	7,870.00	7,959.76	7,868.46	44.82	31.25	91.06	-3,619.45	1,124.33	3,167.21	3,092.36	74.85	42.315	
10,700.00	7,870.00	7,959.49	7,868.19	45.36	31.25	91.04	-3,619.45	1,124.33	3,070.38	2,995.27	75.12	40.875	
10,800.00	7,870.00	7,959.22	7,867.92	46.15	31.25	91.02	-3,619.45	1,124.33	2,973.77	2,898.36	75.41	39.436	
10,900.00	7,870.00	7,958.95	7,867.64	47.09	31.25	91.00	-3,619.45	1,124.32	2,877.38	2,801.66	75.72	38.000	
11,000.00	7,870.00	7,958.67	7,867.37	48.13	31.25	90.98	-3,619.45	1,124.32	2,781.25	2,705.19	76.06	36.565	
11,100.00	7,870.00	7,958.40	7,867.10	49.22	31.25	90.96	-3,619.45	1,124.32	2,685.40	2,608.97	76.44	35.133	
11,200.00	7,870.00	7,958.13	7,866.82	50.37	31.25	90.94	-3,619.45	1,124.32	2,589.87	2,513.03	76.84	33.703	
11,300.00	7,870.00	7,957.85	7,866.55	51.55	31.25	90.92	-3,619.45	1,124.32	2,494.69	2,417.40	77.29	32.278	
11,400.00	7,870.00	7,957.58	7,866.28	52.76	31.25	90.90	-3,619.45	1,124.31	2,399.89	2,322.12	77.78	30.856	
11,500.00	7,870.00	7,957.30	7,866.00	54.00	31.25	90.88	-3,619.45	1,124.31	2,305.54	2,227.23	78.31	29.440	
11,600.00	7,870.00	7,957.03	7,865.73	55.27	31.24	90.86	-3,619.46	1,124.31	2,211.69	2,132.78	78.90	28.030	
11,700.00	7,870.00	7,956.75	7,865.45	56.56	31.24	90.84	-3,619.46	1,124.31	2,118.39	2,038.84	79.56	26.628	
11,800.00	7,870.00	7,956.48	7,865.18	57.88	31.24	90.82	-3,619.46	1,124.31	2,025.74	1,945.46	80.28	25.234	
11,900.00	7,870.00	7,956.20	7,864.90	59.21	31.24	90.80	-3,619.46	1,124.30	1,933.82	1,852.74	81.08	23.851	
12,000.00	7,870.00	7,955.93	7,864.62	60.57	31.24	90.78	-3,619.46	1,124.30	1,842.74	1,760.77	81.97	22.481	
12,100.00	7,870.00	7,955.65	7,864.35	61.94	31.24	90.76	-3,619.46	1,124.30	1,752.63	1,669.67	82.96	21.125	
12,200.00	7,870.00	7,955.37	7,864.07	63.33	31.24	90.74	-3,619.46	1,124.30	1,663.66	1,579.59	84.07	19.788	
12,300.00	7,870.00	7,955.09	7,863.79	64.74	31.24	90.72	-3,619.46	1,124.29	1,576.00	1,490.69	85.31	18.473	
12,400.00	7,870.00	7,954.82	7,863.51	66.16	31.24	90.70	-3,619.46	1,124.29	1,489.91	1,403.21	86.70	17.185	
12,500.00	7,870.00	7,954.54	7,863.24	67.59	31.24	90.68	-3,619.46	1,124.29	1,405.65	1,317.40	88.25	15.928	
12,600.00	7,870.00	7,954.26	7,862.96	69.04	31.24	90.66	-3,619.46	1,124.29	1,323.59	1,233.60	89.99	14.709	
12,700.00	7,870.00	7,953.98	7,862.68	70.51	31.24	90.64	-3,619.46	1,124.29	1,244.15	1,152.24	91.92	13.535	
12,800.00	7,870.00	7,953.70	7,862.40	71.98	31.23	90.62	-3,619.46	1,124.28	1,167.88	1,073.83	94.06	12.417	
12,900.00	7,870.00	7,953.42	7,862.12	73.47	31.23	90.60	-3,619.47	1,124.28	1,095.44	999.04	96.40	11.363	
13,000.00	7,870.00	7,953.14	7,861.84	74.96	31.23	90.58	-3,619.47	1,124.28	1,027.63	928.70	98.93	10.388	
13,100.00	7,870.00	7,952.86	7,861.56	76.47	31.23	90.56	-3,619.47	1,124.28	965.42	863.84	101.59	9.504	
13,200.00	7,870.00	7,952.58	7,861.28	77.99	31.23	90.54	-3,619.47	1,124.28	909.99	805.70	104.28	8.726	
13,300.00	7,870.00	7,952.30	7,861.00	79.51	31.23	90.51	-3,619.47	1,124.27	862.62	755.74	106.87	8.072	
13,400.00	7,870.00	7,952.02	7,860.72	81.05	31.23	90.49	-3,619.47	1,124.27	824.70	715.56	109.14	7.556	
13,500.00	7,870.00	7,951.74	7,860.44	82.59	31.23	90.47	-3,619.47	1,124.27	797.60	686.74	110.86	7.195	
13,600.00	7,870.00	7,951.45	7,860.15	84.14	31.23	90.45	-3,619.47	1,124.27	782.43	670.65	111.78	7.000	
13,669.85	7,870.00	7,951.26	7,859.96	85.23	31.23	90.44	-3,619.47	1,124.27	779.31	667.45	111.86	6.967	CC, ES, SF
13,700.00	7,870.00	7,951.17	7,859.87	85.70	31.23	90.43	-3,619.47	1,124.26	779.89	668.15	111.74	6.979	
13,800.00	7,870.00	7,950.89	7,859.59	87.26	31.23	90.41	-3,619.47	1,124.26	790.10	679.37	110.73	7.136	
13,900.00	7,870.00	7,950.61	7,859.30	88.83	31.22	90.39	-3,619.47	1,124.26	812.58	703.74	108.84	7.466	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,950.32	7,859.02	90.41	31.22	90.37	-3,619.47	1,124.26	846.36	740.04	106.31	7.961	
14,100.00	7,870.00	7,950.04	7,858.74	92.00	31.22	90.35	-3,619.47	1,124.26	890.14	786.73	103.41	8.608	
14,200.00	7,870.00	7,949.75	7,858.45	93.59	31.22	90.33	-3,619.48	1,124.25	942.54	842.18	100.36	9.392	
14,300.00	7,870.00	7,949.47	7,858.17	95.18	31.22	90.31	-3,619.48	1,124.25	1,002.20	904.86	97.35	10.295	
14,400.00	7,870.00	7,949.18	7,857.88	96.79	31.22	90.29	-3,619.48	1,124.25	1,067.91	973.42	94.50	11.301	
14,500.00	7,870.00	7,948.90	7,857.60	98.39	31.22	90.26	-3,619.48	1,124.25	1,138.62	1,046.75	91.87	12.394	
14,600.00	7,870.00	7,948.61	7,857.31	100.00	31.22	90.24	-3,619.48	1,124.25	1,213.46	1,123.96	89.51	13.557	
14,700.00	7,870.00	7,948.33	7,857.03	101.62	31.22	90.22	-3,619.48	1,124.24	1,291.71	1,204.32	87.40	14.780	
14,800.00	7,870.00	7,948.04	7,856.74	103.24	31.22	90.20	-3,619.48	1,124.24	1,372.79	1,287.26	85.53	16.050	
14,900.00	7,870.00	7,947.75	7,856.45	104.87	31.22	90.18	-3,619.48	1,124.24	1,456.22	1,372.33	83.89	17.358	
15,000.00	7,870.00	7,947.47	7,856.16	106.50	31.21	90.16	-3,619.48	1,124.24	1,541.62	1,459.16	82.46	18.695	
15,100.00	7,870.00	7,947.18	7,855.88	108.13	31.21	90.14	-3,619.48	1,124.23	1,628.69	1,547.49	81.21	20.056	
15,200.00	7,870.00	7,946.89	7,855.59	109.77	31.21	90.12	-3,619.48	1,124.23	1,717.17	1,637.06	80.11	21.435	
15,300.00	7,870.00	7,946.60	7,855.30	111.41	31.21	90.10	-3,619.48	1,124.23	1,806.85	1,727.69	79.15	22.828	
15,400.00	7,870.00	7,946.31	7,855.01	113.05	31.21	90.07	-3,619.49	1,124.23	1,897.56	1,819.24	78.31	24.231	
15,500.00	7,870.00	7,946.02	7,854.72	114.70	31.21	90.05	-3,619.49	1,124.23	1,989.16	1,911.58	77.58	25.641	
15,600.00	7,870.00	7,945.73	7,854.43	116.35	31.21	90.03	-3,619.49	1,124.22	2,081.53	2,004.60	76.93	27.056	
15,700.00	7,870.00	7,945.44	7,854.14	118.00	31.21	90.01	-3,619.49	1,124.22	2,174.58	2,098.21	76.37	28.475	
15,800.00	7,870.00	7,945.15	7,853.85	119.66	31.21	89.99	-3,619.49	1,124.22	2,268.22	2,192.35	75.87	29.896	
15,900.00	7,870.00	7,944.86	7,853.56	121.32	31.21	89.97	-3,619.49	1,124.22	2,362.38	2,286.95	75.43	31.317	
16,000.00	7,870.00	7,944.57	7,853.27	122.98	31.21	89.95	-3,619.49	1,124.21	2,457.01	2,381.96	75.05	32.739	
16,100.00	7,870.00	7,944.28	7,852.98	124.65	31.20	89.92	-3,619.49	1,124.21	2,552.04	2,477.33	74.71	34.160	
16,200.00	7,870.00	7,943.99	7,852.69	126.32	31.20	89.90	-3,619.49	1,124.21	2,647.44	2,573.03	74.41	35.579	
16,300.00	7,870.00	7,943.70	7,852.40	127.99	31.20	89.88	-3,619.49	1,124.21	2,743.17	2,669.02	74.15	36.997	
16,400.00	7,870.00	7,943.40	7,852.10	129.66	31.20	89.86	-3,619.49	1,124.21	2,839.19	2,765.28	73.91	38.413	
16,500.00	7,870.00	7,943.11	7,851.81	131.33	31.20	89.84	-3,619.49	1,124.20	2,935.47	2,861.77	73.71	39.827	
16,600.00	7,870.00	7,942.82	7,851.52	133.01	31.20	89.82	-3,619.49	1,124.20	3,032.00	2,958.48	73.52	41.238	
16,700.00	7,870.00	7,942.52	7,851.22	134.69	31.20	89.80	-3,619.50	1,124.20	3,128.75	3,055.38	73.36	42.647	
16,800.00	7,870.00	7,942.23	7,850.93	136.37	31.20	89.77	-3,619.50	1,124.20	3,225.69	3,152.47	73.22	44.052	
16,900.00	7,870.00	7,941.93	7,850.63	138.06	31.20	89.75	-3,619.50	1,124.19	3,322.82	3,249.72	73.10	45.455	
17,000.00	7,870.00	7,941.64	7,850.34	139.74	31.20	89.73	-3,619.50	1,124.19	3,420.11	3,347.11	72.99	46.855	
17,100.00	7,870.00	7,941.34	7,850.04	141.43	31.19	89.71	-3,619.50	1,124.19	3,517.55	3,444.65	72.90	48.252	
17,200.00	7,870.00	7,941.05	7,849.75	143.12	31.19	89.69	-3,619.50	1,124.19	3,615.13	3,542.31	72.82	49.646	
17,300.00	7,870.00	7,940.75	7,849.45	144.81	31.19	89.67	-3,619.50	1,124.19	3,712.84	3,640.10	72.75	51.037	
17,400.00	7,870.00	7,940.46	7,849.15	146.50	31.19	89.64	-3,619.50	1,124.18	3,810.67	3,737.99	72.69	52.425	
17,500.00	7,870.00	7,940.16	7,848.86	148.19	31.19	89.62	-3,619.50	1,124.18	3,908.61	3,835.98	72.64	53.810	
17,600.00	7,870.00	7,939.86	7,848.56	149.89	31.19	89.60	-3,619.50	1,124.18	4,006.65	3,934.06	72.60	55.191	
17,700.00	7,870.00	7,939.56	7,848.26	151.59	31.19	89.58	-3,619.50	1,124.18	4,104.79	4,032.23	72.56	56.570	
17,800.00	7,870.00	7,939.27	7,847.96	153.29	31.19	89.56	-3,619.50	1,124.18	4,203.01	4,130.48	72.53	57.945	
17,900.00	7,870.00	7,938.97	7,847.67	154.99	31.19	89.53	-3,619.51	1,124.17	4,301.32	4,228.81	72.51	59.317	
18,000.00	7,870.00	7,938.67	7,847.37	156.69	31.19	89.51	-3,619.51	1,124.17	4,399.70	4,327.20	72.50	60.686	
18,100.00	7,870.00	7,938.37	7,847.07	158.39	31.19	89.49	-3,619.51	1,124.17	4,498.15	4,425.67	72.49	62.052	
18,200.00	7,870.00	7,938.07	7,846.77	160.09	31.18	89.47	-3,619.51	1,124.17	4,596.68	4,524.19	72.49	63.415	
18,300.00	7,870.00	7,937.77	7,846.47	161.80	31.18	89.45	-3,619.51	1,124.16	4,695.26	4,622.77	72.49	64.775	
18,400.00	7,870.00	7,937.47	7,846.17	163.51	31.18	89.42	-3,619.51	1,124.16	4,793.90	4,721.41	72.49	66.131	
18,455.45	7,870.00	7,937.30	7,846.00	164.45	31.18	89.41	-3,619.51	1,124.16	4,848.62	4,776.12	72.49	66.882	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 92-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	174.53	-4,029.75	386.19	4,048.25				
100.00	100.00	96.31	96.31	0.13	0.16	174.52	-4,029.59	386.40	4,048.10	4,047.80	0.29	N/A	
200.00	200.00	245.18	245.16	0.49	0.69	174.49	-4,028.05	388.37	4,047.19	4,046.00	1.19	3,410.119	
300.00	300.00	305.00	304.94	0.85	0.91	174.47	-4,026.85	389.88	4,045.73	4,043.97	1.76	2,299.763	
320.94	320.94	305.00	304.94	0.93	0.91	174.47	-4,026.85	389.88	4,045.68	4,043.84	1.83	2,205.411	
400.00	400.00	305.00	304.94	1.21	0.91	174.47	-4,026.85	389.88	4,046.45	4,044.33	2.12	1,908.214	
430.86	430.86	386.42	386.30	1.32	1.21	174.43	-4,026.03	392.88	4,045.25	4,042.73	2.53	1,601.872	
500.00	500.00	415.92	415.77	1.57	1.31	174.41	-4,026.24	394.29	4,046.08	4,043.20	2.88	1,404.382	
600.00	600.00	458.55	458.33	1.93	1.47	174.37	-4,027.04	396.64	4,048.48	4,045.08	3.40	1,192.312	
700.00	700.00	501.11	500.77	2.29	1.63	174.34	-4,028.40	399.34	4,052.29	4,048.38	3.91	1,036.643	
800.00	800.00	543.57	543.08	2.64	1.78	174.30	-4,030.32	402.40	4,057.52	4,053.10	4.42	917.798	
900.00	900.00	639.00	637.94	3.00	2.13	174.19	-4,036.70	410.57	4,064.98	4,059.86	5.12	793.653	
1,000.00	1,000.00	639.00	637.94	3.36	2.13	174.19	-4,036.70	410.57	4,072.26	4,066.78	5.48	743.594	
1,100.00	1,100.00	673.48	672.13	3.72	2.27	174.15	-4,039.68	413.89	4,081.66	4,075.70	5.96	684.872	
1,200.00	1,200.00	731.00	729.08	4.08	2.50	174.08	-4,045.36	419.65	4,092.43	4,085.90	6.53	627.053	
1,300.00	1,300.00	731.00	729.08	4.44	2.50	174.08	-4,045.36	419.65	4,104.75	4,097.88	6.87	597.495	
1,400.00	1,399.98	792.44	789.70	4.79	2.75	130.83	-4,052.68	426.43	4,119.29	4,111.84	7.45	552.660	
1,500.00	1,499.84	825.00	821.70	5.15	2.89	130.51	-4,057.19	430.41	4,137.86	4,129.94	7.92	522.524	
1,600.00	1,599.45	864.35	860.25	5.51	3.07	130.14	-4,063.19	435.54	4,160.11	4,151.70	8.42	494.262	
1,700.00	1,698.70	920.00	914.53	5.87	3.32	129.71	-4,072.63	443.37	4,186.06	4,177.08	8.98	466.024	
1,800.00	1,797.47	920.00	914.53	6.24	3.32	129.24	-4,072.63	443.37	4,215.40	4,206.08	9.31	452.647	
1,900.00	1,895.62	972.49	965.48	6.63	3.58	128.71	-4,082.58	451.15	4,248.09	4,238.21	9.88	430.040	
2,000.00	1,993.06	1,014.00	1,005.60	7.04	3.78	128.14	-4,091.19	457.42	4,284.24	4,273.84	10.40	411.917	
2,100.00	2,089.64	1,051.02	1,041.27	7.48	3.98	127.50	-4,099.31	463.11	4,323.54	4,312.62	10.92	396.019	
2,200.00	2,185.27	1,108.00	1,096.00	7.94	4.28	126.85	-4,112.38	472.05	4,365.79	4,354.25	11.54	378.391	
2,300.00	2,279.82	1,196.98	1,181.45	8.45	4.77	126.24	-4,133.29	485.41	4,410.47	4,398.14	12.33	357.673	
2,400.00	2,373.17	1,316.03	1,296.17	8.99	5.42	125.71	-4,159.84	502.99	4,455.78	4,442.48	13.30	335.048	
2,500.00	2,465.21	1,369.00	1,347.05	9.58	5.72	124.97	-4,171.93	511.37	4,503.65	4,489.68	13.97	322.352	
2,574.08	2,532.50	1,457.26	1,431.70	10.04	6.23	124.55	-4,192.08	526.16	4,540.42	4,525.68	14.74	307.980	
2,600.00	2,555.89	1,480.94	1,454.41	10.21	6.37	124.62	-4,197.36	530.26	4,553.34	4,538.36	14.98	303.959	
2,700.00	2,646.16	1,559.91	1,530.15	10.88	6.84	124.86	-4,215.01	544.01	4,603.31	4,587.47	15.84	290.643	
2,800.00	2,736.44	1,624.46	1,591.97	11.57	7.22	125.06	-4,229.60	555.43	4,653.58	4,636.95	16.64	279.717	
2,900.00	2,826.71	1,697.86	1,662.18	12.27	7.66	125.27	-4,246.44	568.65	4,704.24	4,686.75	17.50	268.888	
3,000.00	2,916.98	1,824.72	1,783.58	13.00	8.43	125.63	-4,275.31	591.52	4,754.91	4,736.24	18.67	254.746	
3,100.00	3,007.25	1,902.74	1,858.31	13.73	8.90	125.84	-4,292.52	605.88	4,804.97	4,785.40	19.57	245.483	
3,200.00	3,097.52	1,996.69	1,948.47	14.48	9.47	126.10	-4,313.56	621.88	4,855.29	4,834.72	20.57	235.991	
3,300.00	3,187.80	2,096.60	2,044.48	15.23	10.06	126.38	-4,335.54	638.60	4,905.29	4,883.67	21.61	226.957	
3,400.00	3,278.07	2,152.40	2,098.07	15.99	10.40	126.53	-4,347.80	648.17	4,955.42	4,933.01	22.41	221.127	
3,500.00	3,368.34	2,191.76	2,135.74	16.76	10.64	126.64	-4,356.79	655.15	5,006.34	4,983.23	23.11	216.605	
3,600.00	3,458.61	2,255.20	2,196.30	17.54	11.03	126.80	-4,371.79	666.67	5,058.01	5,034.05	23.96	211.111	
3,700.00	3,548.89	2,363.54	2,299.91	18.32	11.70	127.07	-4,397.15	685.68	5,109.51	5,084.43	25.08	203.738	
3,800.00	3,639.16	3,800.00	2,420.27	19.10	20.49	127.38	-4,425.64	707.98	5,160.40	5,127.78	32.61	158.225	
3,900.00	3,729.43	2,556.92	2,485.15	19.89	12.89	127.54	-4,440.72	720.02	5,211.10	5,183.91	27.19	191.645	
4,000.00	3,819.70	2,622.25	2,547.56	20.69	13.29	127.69	-4,455.80	732.12	5,262.51	5,234.45	28.06	187.529	
4,100.00	3,909.98	2,783.45	2,701.94	21.48	14.29	128.05	-4,491.69	761.46	5,313.20	5,283.67	29.53	179.902	
4,200.00	4,000.25	2,874.84	2,789.68	22.28	14.84	128.25	-4,511.45	777.70	5,363.42	5,332.85	30.57	175.451	
4,300.00	4,090.52	2,930.37	2,843.00	23.08	15.18	128.38	-4,523.58	787.40	5,413.86	5,382.48	31.38	172.519	
4,400.00	4,180.79	2,996.50	2,906.40	23.88	15.58	128.52	-4,538.38	799.01	5,464.80	5,432.54	32.26	169.408	
4,500.00	4,271.06	3,086.21	2,992.43	24.69	16.13	128.72	-4,558.41	814.67	5,515.76	5,482.47	33.29	165.710	
4,600.00	4,361.34	3,150.73	3,054.26	25.49	16.53	128.85	-4,572.95	826.04	5,566.93	5,532.78	34.15	162.998	
4,700.00	4,451.61	3,229.58	3,129.74	26.30	17.01	129.02	-4,590.89	840.08	5,618.36	5,583.24	35.11	160.000	
4,800.00	4,541.88	3,366.60	3,261.03	27.11	17.86	129.29	-4,621.55	864.50	5,669.51	5,633.05	36.46	155.509	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,632.15	3,440.90	3,332.23	27.92	18.32	129.44	-4,637.86	878.12	5,720.33	5,682.93	37.40	152.967	
5,000.00	4,722.43	3,514.61	3,402.79	28.74	18.77	129.57	-4,654.17	891.82	5,771.35	5,733.01	38.33	150.563	
5,100.00	4,812.70	3,576.64	3,462.17	29.55	19.16	129.69	-4,668.05	903.20	5,822.61	5,783.43	39.19	148.583	
5,200.00	4,902.97	3,636.00	3,518.96	30.37	19.53	129.80	-4,681.64	913.89	5,874.33	5,834.30	40.02	146.775	
5,300.00	4,993.24	5,300.00	3,681.40	31.18	29.62	130.12	-4,719.32	943.75	5,925.42	5,876.51	48.90	121.170	
5,400.00	5,083.51	3,880.48	3,753.55	32.00	21.02	130.26	-4,735.47	956.72	5,976.02	5,933.49	42.53	140.517	
5,500.00	5,173.79	3,919.00	3,790.53	32.82	21.25	130.33	-4,743.98	963.37	6,027.19	5,983.97	43.22	139.460	
5,600.00	5,264.06	3,966.80	3,836.37	33.63	21.55	130.42	-4,754.86	971.44	6,078.96	6,034.99	43.96	138.274	
5,700.00	5,354.33	5,515.16	5,357.86	34.45	28.21	134.10	-4,933.25	1,114.78	6,121.75	6,069.63	52.12	117.465	
5,800.00	5,444.60	5,606.79	5,449.49	35.27	28.43	134.38	-4,932.94	1,115.45	6,152.97	6,099.98	52.99	116.117	
5,900.00	5,534.88	5,707.30	5,549.99	36.09	28.67	134.67	-4,932.53	1,116.10	6,184.25	6,130.37	53.89	114.765	
6,000.00	5,625.15	5,798.03	5,640.72	36.91	28.89	134.93	-4,932.07	1,116.75	6,215.58	6,160.83	54.75	113.523	
6,100.00	5,715.42	5,901.59	5,744.28	37.74	29.14	135.23	-4,931.46	1,117.39	6,246.96	6,191.31	55.65	112.251	
6,200.00	5,805.69	6,010.27	5,852.95	38.56	29.40	135.55	-4,930.53	1,117.88	6,278.23	6,221.67	56.56	111.002	
6,300.00	5,895.96	6,113.29	5,955.97	39.38	29.64	135.84	-4,929.41	1,118.31	6,309.41	6,251.97	57.45	109.831	
6,400.00	5,986.24	6,213.37	6,056.04	40.20	29.87	136.12	-4,928.11	1,118.70	6,340.54	6,282.22	58.32	108.715	
6,500.00	6,076.51	6,315.69	6,158.34	41.03	30.12	136.41	-4,926.71	1,119.12	6,371.73	6,312.52	59.20	107.624	
6,600.00	6,166.78	6,444.61	6,287.24	41.85	30.42	136.76	-4,924.35	1,119.80	6,402.59	6,342.43	60.16	106.421	
6,700.00	6,257.05	6,514.45	6,357.07	42.67	30.59	136.95	-4,922.91	1,120.22	6,433.41	6,372.46	60.95	105.557	
6,800.00	6,347.33	6,572.54	6,415.15	43.50	30.73	137.10	-4,922.05	1,120.82	6,464.81	6,403.12	61.69	104.789	
6,900.00	6,437.60	6,646.13	6,488.72	44.32	30.93	137.30	-4,921.24	1,121.73	6,496.67	6,434.18	62.49	103.962	
7,000.00	6,527.87	6,726.68	6,569.27	45.15	31.14	137.51	-4,920.53	1,122.78	6,528.84	6,465.53	63.31	103.125	
7,100.00	6,618.14	6,828.49	6,671.06	45.98	31.41	137.77	-4,919.68	1,124.25	6,561.14	6,496.94	64.20	102.197	
7,200.00	6,708.41	6,953.69	6,796.23	46.80	31.74	138.08	-4,918.13	1,126.32	6,593.17	6,528.01	65.17	101.173	
7,300.00	6,798.69	7,032.98	6,875.52	47.63	31.95	138.28	-4,916.99	1,126.95	6,625.17	6,559.21	65.97	100.429	
7,400.00	6,888.96	7,172.52	7,015.03	48.45	32.29	138.65	-4,914.52	1,126.94	6,657.04	6,590.09	66.95	99.437	
7,500.00	6,979.23	7,322.61	7,165.07	49.28	32.65	139.04	-4,910.63	1,126.36	6,688.31	6,620.36	67.95	98.433	
7,600.00	7,069.50	7,392.74	7,235.17	50.11	32.82	139.22	-4,908.60	1,125.85	6,719.40	6,650.70	68.70	97.807	
7,692.09	7,152.63	7,440.58	7,282.99	50.87	32.94	139.35	-4,907.36	1,125.51	6,748.45	6,679.11	69.34	97.323	
7,700.00	7,159.79	7,443.95	7,286.36	50.93	32.95	138.12	-4,907.29	1,125.49	6,750.92	6,681.53	69.39	97.285	
7,750.00	7,205.70	7,465.49	7,307.90	51.32	33.00	128.99	-4,906.86	1,125.39	6,764.24	6,694.52	69.72	97.014	
7,800.00	7,252.52	7,508.00	7,350.40	51.66	33.11	117.28	-4,906.26	1,125.29	6,773.60	6,703.48	70.12	96.599	
7,850.00	7,299.89	7,512.39	7,354.79	51.96	33.12	103.00	-4,906.21	1,125.29	6,778.73	6,708.35	70.39	96.306	
7,900.00	7,347.44	7,575.07	7,417.47	52.20	33.28	87.80	-4,905.49	1,125.35	6,779.65	6,708.81	70.84	95.706	
7,950.00	7,394.83	7,629.29	7,471.68	52.39	33.43	73.63	-4,904.78	1,125.59	6,776.16	6,704.92	71.25	95.107	
8,000.00	7,441.68	7,676.74	7,519.12	52.53	33.55	61.95	-4,904.17	1,125.99	6,768.39	6,696.77	71.62	94.505	
8,050.00	7,487.65	7,751.71	7,594.08	52.62	33.76	53.09	-4,903.10	1,126.96	6,756.34	6,684.26	72.07	93.744	
8,100.00	7,532.37	7,821.57	7,663.91	52.67	33.95	46.55	-4,901.79	1,128.16	6,739.91	6,667.42	72.49	92.976	
8,150.00	7,575.52	7,873.51	7,715.83	52.67	34.10	41.73	-4,900.71	1,129.16	6,719.40	6,646.57	72.83	92.262	
8,200.00	7,616.76	7,904.52	7,746.84	52.63	34.18	38.18	-4,900.06	1,129.76	6,695.05	6,621.97	73.08	91.614	
8,250.00	7,655.77	7,928.53	7,770.83	52.55	34.25	35.61	-4,899.60	1,130.14	6,667.13	6,593.85	73.29	90.972	
8,300.00	7,692.27	7,950.93	7,793.23	52.44	34.31	33.84	-4,899.21	1,130.41	6,635.85	6,562.37	73.48	90.312	
8,350.00	7,725.97	7,979.00	7,821.30	52.29	34.39	32.78	-4,898.77	1,130.64	6,601.42	6,527.75	73.67	89.606	
8,400.00	7,756.62	7,996.98	7,839.27	52.12	34.44	32.30	-4,898.51	1,130.75	6,564.06	6,490.24	73.82	88.921	
8,450.00	7,783.98	8,023.43	7,865.72	51.92	34.51	32.52	-4,898.13	1,130.92	6,524.03	6,450.04	73.99	88.180	
8,500.00	7,807.85	8,046.40	7,888.69	51.70	34.57	33.48	-4,897.80	1,131.07	6,481.61	6,407.48	74.13	87.434	
8,550.00	7,828.05	8,065.72	7,908.01	51.45	34.63	35.41	-4,897.53	1,131.20	6,437.13	6,362.87	74.26	86.687	
8,600.00	7,844.41	8,081.44	7,923.73	51.20	34.67	38.83	-4,897.31	1,131.30	6,390.91	6,316.54	74.36	85.940	
8,650.00	7,856.82	8,093.36	7,935.64	50.93	34.70	44.81	-4,897.14	1,131.38	6,343.30	6,268.85	74.46	85.196	
8,700.00	7,865.18	8,101.14	7,943.42	50.65	34.72	55.97	-4,897.03	1,131.43	6,294.67	6,220.14	74.53	84.459	
8,750.00	7,869.43	8,104.74	7,947.02	50.36	34.73	78.36	-4,896.97	1,131.46	6,245.37	6,170.78	74.59	83.733	
8,776.25	7,870.00	8,104.94	7,947.22	50.21	34.73	96.92	-4,896.97	1,131.46	6,219.34	6,144.73	74.61	83.357	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	8,104.60	7,946.88	50.08	34.73	96.90	-4,896.98	1,131.46	6,195.78	6,121.14	74.63	83.018	
8,900.00	7,870.00	8,103.15	7,945.43	49.53	34.73	96.79	-4,897.00	1,131.45	6,096.57	6,021.85	74.72	81.593	
9,000.00	7,870.00	8,101.70	7,943.98	49.01	34.72	96.68	-4,897.02	1,131.44	5,997.39	5,922.58	74.81	80.167	
9,100.00	7,870.00	8,100.25	7,942.53	48.52	34.72	96.58	-4,897.04	1,131.43	5,898.24	5,823.33	74.91	78.740	
9,200.00	7,870.00	8,098.81	7,941.09	48.06	34.72	96.47	-4,897.06	1,131.42	5,799.12	5,724.11	75.01	77.312	
9,300.00	7,870.00	8,097.36	7,939.64	47.63	34.71	96.36	-4,897.08	1,131.41	5,700.02	5,624.91	75.12	75.883	
9,400.00	7,870.00	8,095.92	7,938.20	47.22	34.71	96.26	-4,897.10	1,131.40	5,600.96	5,525.73	75.23	74.453	
9,500.00	7,870.00	8,094.47	7,936.76	46.83	34.70	96.15	-4,897.12	1,131.39	5,501.94	5,426.59	75.35	73.022	
9,600.00	7,870.00	8,093.03	7,935.31	46.48	34.70	96.05	-4,897.14	1,131.38	5,402.94	5,327.47	75.47	71.590	
9,700.00	7,870.00	8,091.59	7,933.87	46.14	34.70	95.94	-4,897.16	1,131.37	5,303.99	5,228.39	75.60	70.157	
9,800.00	7,870.00	8,090.15	7,932.43	45.83	34.69	95.83	-4,897.18	1,131.36	5,205.07	5,129.34	75.74	68.724	
9,900.00	7,870.00	8,088.71	7,930.99	45.54	34.69	95.73	-4,897.20	1,131.35	5,106.20	5,030.32	75.88	67.290	
10,000.00	7,870.00	8,087.27	7,929.55	45.27	34.68	95.62	-4,897.22	1,131.34	5,007.37	4,931.34	76.04	65.855	
10,100.00	7,870.00	8,085.83	7,928.12	45.03	34.68	95.51	-4,897.24	1,131.33	4,908.59	4,832.39	76.20	64.420	
10,200.00	7,870.00	8,084.39	7,926.68	44.82	34.68	95.41	-4,897.26	1,131.32	4,809.86	4,733.49	76.37	62.985	
10,300.00	7,870.00	8,082.96	7,925.24	44.66	34.67	95.30	-4,897.28	1,131.31	4,711.18	4,634.64	76.54	61.549	
10,400.00	7,870.00	8,081.52	7,923.81	44.56	34.67	95.19	-4,897.30	1,131.30	4,612.56	4,535.83	76.73	60.112	
10,500.00	7,870.00	8,080.09	7,922.37	44.58	34.67	95.09	-4,897.32	1,131.29	4,514.00	4,437.06	76.93	58.676	
10,600.00	7,870.00	8,078.66	7,920.94	44.82	34.66	94.98	-4,897.35	1,131.28	4,415.50	4,338.36	77.14	57.239	
10,700.00	7,870.00	8,077.22	7,919.51	45.36	34.66	94.88	-4,897.37	1,131.27	4,317.07	4,239.70	77.36	55.803	
10,800.00	7,870.00	8,075.79	7,918.08	46.15	34.65	94.77	-4,897.39	1,131.26	4,218.71	4,141.11	77.60	54.366	
10,900.00	7,870.00	8,074.36	7,916.65	47.09	34.65	94.66	-4,897.41	1,131.25	4,120.44	4,042.59	77.85	52.930	
11,000.00	7,870.00	8,072.94	7,915.23	48.13	34.65	94.56	-4,897.43	1,131.24	4,022.24	3,944.13	78.11	51.494	
11,100.00	7,870.00	8,071.53	7,913.82	49.22	34.64	94.45	-4,897.45	1,131.24	3,924.14	3,845.75	78.39	50.058	
11,200.00	7,870.00	8,070.12	7,912.41	50.37	34.64	94.35	-4,897.47	1,131.23	3,826.14	3,747.45	78.69	48.624	
11,300.00	7,870.00	8,068.71	7,910.99	51.55	34.63	94.24	-4,897.49	1,131.22	3,728.24	3,649.23	79.01	47.190	
11,400.00	7,870.00	8,067.29	7,909.58	52.76	34.63	94.14	-4,897.51	1,131.21	3,630.45	3,551.11	79.34	45.757	
11,500.00	7,870.00	8,065.88	7,908.16	54.00	34.63	94.03	-4,897.53	1,131.20	3,532.79	3,453.09	79.70	44.325	
11,600.00	7,870.00	8,064.46	7,906.75	55.27	34.62	93.93	-4,897.55	1,131.19	3,435.26	3,355.18	80.09	42.895	
11,700.00	7,870.00	8,063.05	7,905.33	56.56	34.62	93.82	-4,897.57	1,131.18	3,337.88	3,257.38	80.50	41.466	
11,800.00	7,870.00	8,061.63	7,903.92	57.88	34.61	93.72	-4,897.59	1,131.17	3,240.66	3,159.72	80.94	40.040	
11,900.00	7,870.00	8,060.21	7,902.50	59.21	34.61	93.61	-4,897.61	1,131.16	3,143.61	3,062.20	81.41	38.616	
12,000.00	7,870.00	8,058.79	7,901.08	60.57	34.61	93.51	-4,897.63	1,131.15	3,046.75	2,964.84	81.91	37.195	
12,100.00	7,870.00	8,057.37	7,899.66	61.94	34.60	93.40	-4,897.65	1,131.14	2,950.10	2,867.64	82.46	35.777	
12,200.00	7,870.00	8,055.95	7,898.24	63.33	34.60	93.30	-4,897.67	1,131.13	2,853.68	2,770.63	83.05	34.363	
12,300.00	7,870.00	8,054.53	7,896.82	64.74	34.60	93.19	-4,897.69	1,131.12	2,757.51	2,673.83	83.68	32.953	
12,400.00	7,870.00	8,053.11	7,895.40	66.16	34.59	93.08	-4,897.71	1,131.11	2,661.63	2,577.26	84.37	31.548	
12,500.00	7,870.00	8,051.69	7,893.97	67.59	34.59	92.98	-4,897.73	1,131.10	2,566.06	2,480.95	85.11	30.149	
12,600.00	7,870.00	8,050.26	7,892.55	69.04	34.58	92.87	-4,897.75	1,131.09	2,470.84	2,384.92	85.92	28.757	
12,700.00	7,870.00	8,048.84	7,891.12	70.51	34.58	92.77	-4,897.77	1,131.08	2,376.01	2,289.21	86.80	27.373	
12,800.00	7,870.00	8,047.41	7,889.70	71.98	34.58	92.66	-4,897.79	1,131.07	2,281.62	2,193.86	87.76	25.997	
12,900.00	7,870.00	8,045.98	7,888.27	73.47	34.57	92.55	-4,897.81	1,131.06	2,187.73	2,098.92	88.82	24.632	
13,000.00	7,870.00	8,044.56	7,886.85	74.96	34.57	92.45	-4,897.83	1,131.06	2,094.41	2,004.44	89.97	23.279	
13,100.00	7,870.00	8,043.13	7,885.42	76.47	34.56	92.34	-4,897.85	1,131.05	2,001.72	1,910.49	91.24	21.940	
13,200.00	7,870.00	8,041.70	7,883.99	77.99	34.56	92.24	-4,897.87	1,131.04	1,909.78	1,817.15	92.63	20.617	
13,300.00	7,870.00	8,040.27	7,882.56	79.51	34.56	92.13	-4,897.89	1,131.03	1,818.68	1,724.51	94.17	19.312	
13,400.00	7,870.00	8,038.84	7,881.13	81.05	34.55	92.02	-4,897.91	1,131.02	1,728.57	1,632.70	95.87	18.030	
13,500.00	7,870.00	8,037.41	7,879.70	82.59	34.55	91.92	-4,897.93	1,131.01	1,639.61	1,541.85	97.76	16.772	
13,600.00	7,870.00	8,035.98	7,878.27	84.14	34.54	91.81	-4,897.95	1,131.00	1,551.98	1,452.14	99.85	15.544	
13,700.00	7,870.00	8,034.54	7,876.83	85.70	34.54	91.70	-4,897.97	1,130.99	1,465.94	1,363.78	102.16	14.350	
13,800.00	7,870.00	8,033.11	7,875.40	87.26	34.54	91.60	-4,897.99	1,130.98	1,381.78	1,277.06	104.72	13.195	
13,900.00	7,870.00	8,031.67	7,873.96	88.83	34.53	91.49	-4,898.01	1,130.97	1,299.86	1,192.32	107.55	12.087	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	8,030.24	7,872.53	90.41	34.53	91.38	-4,898.03	1,130.96	1,220.64	1,109.99	110.65	11.031	
14,100.00	7,870.00	8,028.80	7,871.09	92.00	34.52	91.27	-4,898.06	1,130.95	1,144.68	1,030.65	114.03	10.038	
14,200.00	7,870.00	8,027.36	7,869.65	93.59	34.52	91.17	-4,898.08	1,130.94	1,072.67	955.00	117.67	9.116	
14,300.00	7,870.00	8,025.93	7,868.22	95.18	34.52	91.06	-4,898.10	1,130.93	1,005.45	883.96	121.49	8.276	
14,400.00	7,870.00	8,024.49	7,866.78	96.79	34.51	90.95	-4,898.12	1,130.93	944.05	818.67	125.38	7.529	
14,500.00	7,870.00	8,023.05	7,865.34	98.39	34.51	90.85	-4,898.14	1,130.92	889.69	760.54	129.15	6.889	
14,600.00	7,870.00	8,021.61	7,863.90	100.00	34.50	90.74	-4,898.16	1,130.91	843.71	711.21	132.50	6.368	
14,700.00	7,870.00	8,020.16	7,862.46	101.62	34.50	90.63	-4,898.18	1,130.90	807.55	672.46	135.09	5.978	
14,800.00	7,870.00	8,018.72	7,861.01	103.24	34.50	90.52	-4,898.20	1,130.89	782.58	646.04	136.54	5.731	
14,900.00	7,870.00	8,017.28	7,859.57	104.87	34.49	90.42	-4,898.22	1,130.88	769.88	633.34	136.55	5.638	SF
14,948.58	7,870.00	8,016.58	7,858.87	105.66	34.49	90.36	-4,898.23	1,130.87	768.35	632.37	135.98	5.650	CC, ES
15,000.00	7,870.00	8,015.83	7,858.13	106.50	34.49	90.31	-4,898.24	1,130.87	770.07	635.09	134.98	5.705	
15,100.00	7,870.00	8,014.39	7,856.68	108.13	34.49	90.20	-4,898.26	1,130.86	783.12	651.15	131.97	5.934	
15,200.00	7,870.00	8,012.94	7,855.24	109.77	34.48	90.09	-4,898.28	1,130.85	808.43	680.59	127.84	6.324	
15,300.00	7,870.00	8,011.50	7,853.79	111.41	34.48	89.98	-4,898.30	1,130.84	844.89	721.87	123.02	6.868	
15,400.00	7,870.00	8,010.05	7,852.34	113.05	34.47	89.88	-4,898.32	1,130.83	891.12	773.19	117.93	7.556	
15,500.00	7,870.00	8,008.60	7,850.89	114.70	34.47	89.77	-4,898.34	1,130.82	945.71	832.81	112.90	8.377	
15,600.00	7,870.00	8,007.15	7,849.44	116.35	34.47	89.66	-4,898.37	1,130.81	1,007.28	899.14	108.14	9.314	
15,700.00	7,870.00	8,005.70	7,847.99	118.00	34.46	89.55	-4,898.39	1,130.81	1,074.65	970.87	103.78	10.355	
15,800.00	7,870.00	8,004.25	7,846.54	119.66	34.46	89.44	-4,898.41	1,130.80	1,146.79	1,046.93	99.87	11.483	
15,900.00	7,870.00	8,002.80	7,845.09	121.32	34.45	89.34	-4,898.43	1,130.79	1,222.86	1,126.46	96.39	12.686	
16,000.00	7,870.00	8,001.34	7,843.64	122.98	34.45	89.23	-4,898.45	1,130.78	1,302.16	1,208.82	93.34	13.951	
16,100.00	7,870.00	7,999.89	7,842.18	124.65	34.45	89.12	-4,898.47	1,130.77	1,384.14	1,293.48	90.66	15.267	
16,200.00	7,870.00	7,998.44	7,840.73	126.32	34.44	89.01	-4,898.49	1,130.76	1,468.36	1,380.03	88.33	16.623	
16,300.00	7,870.00	7,996.98	7,839.28	127.99	34.44	88.90	-4,898.51	1,130.75	1,554.45	1,468.15	86.30	18.011	
16,400.00	7,870.00	7,995.52	7,837.82	129.66	34.43	88.79	-4,898.53	1,130.74	1,642.12	1,557.58	84.54	19.424	
16,500.00	7,870.00	7,994.07	7,836.36	131.33	34.43	88.69	-4,898.55	1,130.73	1,731.12	1,648.12	83.00	20.857	
16,600.00	7,870.00	7,992.61	7,834.90	133.01	34.43	88.58	-4,898.58	1,130.72	1,821.26	1,739.60	81.66	22.303	
16,700.00	7,870.00	7,991.15	7,833.45	134.69	34.42	88.47	-4,898.60	1,130.71	1,912.38	1,831.89	80.49	23.758	
16,800.00	7,870.00	7,989.69	7,831.99	136.37	34.42	88.36	-4,898.62	1,130.71	2,004.35	1,924.87	79.47	25.220	
16,900.00	7,870.00	7,988.43	7,830.73	138.06	34.41	88.27	-4,898.64	1,130.69	2,097.05	2,018.47	78.58	26.686	
17,000.00	7,870.00	7,987.00	7,829.30	139.74	34.41	88.16	-4,898.66	1,130.68	2,190.39	2,112.59	77.80	28.153	
17,100.00	7,870.00	7,985.54	7,827.84	141.43	34.41	88.05	-4,898.68	1,130.68	2,284.30	2,207.18	77.12	29.620	
17,200.00	7,870.00	7,984.07	7,826.36	143.12	34.40	87.94	-4,898.70	1,130.67	2,378.70	2,302.18	76.52	31.086	
17,300.00	7,870.00	7,982.56	7,824.86	144.81	34.40	87.83	-4,898.72	1,130.66	2,473.54	2,397.54	75.99	32.549	
17,400.00	7,870.00	7,981.03	7,823.33	146.50	34.39	87.71	-4,898.74	1,130.65	2,568.77	2,493.24	75.53	34.009	
17,500.00	7,870.00	7,979.48	7,821.78	148.19	34.39	87.60	-4,898.76	1,130.64	2,664.35	2,589.22	75.13	35.464	
17,600.00	7,870.00	7,977.90	7,820.20	149.89	34.39	87.48	-4,898.79	1,130.63	2,760.24	2,685.47	74.77	36.915	
17,700.00	7,870.00	7,976.30	7,818.59	151.59	34.38	87.36	-4,898.81	1,130.62	2,856.41	2,781.95	74.46	38.361	
17,800.00	7,870.00	7,974.66	7,816.96	153.29	34.38	87.24	-4,898.83	1,130.61	2,952.84	2,878.65	74.19	39.802	
17,900.00	7,870.00	7,973.00	7,815.30	154.99	34.37	87.12	-4,898.86	1,130.60	3,049.50	2,975.55	73.95	41.238	
18,000.00	7,870.00	7,971.31	7,813.61	156.69	34.37	86.99	-4,898.88	1,130.59	3,146.36	3,072.62	73.74	42.669	
18,100.00	7,870.00	7,969.60	7,811.89	158.39	34.36	86.86	-4,898.91	1,130.57	3,243.41	3,169.86	73.56	44.094	
18,200.00	7,870.00	7,967.85	7,810.15	160.09	34.36	86.73	-4,898.94	1,130.56	3,340.64	3,267.24	73.40	45.514	
18,300.00	7,870.00	7,966.07	7,808.37	161.80	34.35	86.60	-4,898.96	1,130.55	3,438.03	3,364.76	73.26	46.929	
18,400.00	7,870.00	7,964.26	7,806.56	163.51	34.35	86.47	-4,898.99	1,130.53	3,535.56	3,462.41	73.14	48.338	
18,455.45	7,870.00	7,963.24	7,805.54	164.45	34.34	86.39	-4,899.01	1,130.52	3,589.69	3,516.61	73.08	49.117	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.32	-2,139.73	2,190.93	3,062.86				
100.00	100.00	51.07	51.07	0.13	0.08	134.32	-2,139.68	2,190.97	3,062.45	3,062.23	0.22	N/A	
200.00	200.00	157.26	157.26	0.49	0.36	134.31	-2,139.27	2,191.21	3,062.34	3,061.49	0.86	3,575.258	
300.00	300.00	257.22	257.22	0.85	0.71	134.31	-2,138.94	2,191.12	3,062.04	3,060.48	1.57	1,955.782	
400.00	400.00	352.66	352.66	1.21	1.04	134.31	-2,139.04	2,190.82	3,061.89	3,059.64	2.25	1,358.244	
500.00	500.00	453.22	453.22	1.57	1.39	134.32	-2,139.24	2,190.53	3,061.83	3,058.86	2.96	1,033.325	
600.00	600.00	555.14	555.13	1.93	1.75	134.33	-2,139.64	2,189.93	3,061.68	3,057.99	3.68	831.750	
700.00	700.00	657.24	657.23	2.29	2.12	134.35	-2,140.07	2,189.24	3,061.49	3,057.09	4.40	695.471	
800.00	800.00	767.71	767.69	2.64	2.51	134.37	-2,140.57	2,188.18	3,061.13	3,055.97	5.15	593.879	
900.00	900.00	870.70	870.67	3.00	2.88	134.39	-2,141.02	2,186.76	3,060.44	3,054.56	5.88	520.368	
1,000.00	1,000.00	959.07	959.03	3.36	3.20	134.42	-2,141.57	2,185.55	3,059.91	3,053.35	6.56	466.738	
1,100.00	1,100.00	1,050.16	1,050.12	3.72	3.52	134.44	-2,142.51	2,184.52	3,059.82	3,052.58	7.24	422.623	
1,200.00	1,200.00	1,157.38	1,157.32	4.08	3.90	134.48	-2,143.74	2,183.24	3,059.77	3,051.79	7.98	383.326	
1,300.00	1,300.00	1,263.69	1,263.61	4.44	4.29	134.51	-2,144.74	2,181.65	3,059.37	3,050.65	8.72	350.763	
1,400.00	1,399.98	1,363.18	1,363.09	4.79	4.64	91.64	-2,145.82	2,179.98	3,058.98	3,049.54	9.44	324.199	
1,500.00	1,499.84	1,464.87	1,464.75	5.15	5.01	91.79	-2,146.96	2,178.22	3,058.69	3,048.54	10.16	301.182	
1,600.00	1,599.45	1,564.16	1,564.01	5.51	5.37	91.99	-2,148.07	2,176.42	3,058.48	3,047.61	10.87	281.354	
1,645.51	1,644.67	1,608.33	1,608.18	5.67	5.53	92.10	-2,148.60	2,175.60	3,058.45	3,047.25	11.19	273.203	
1,700.00	1,698.70	1,661.10	1,660.94	5.87	5.72	92.25	-2,149.23	2,174.65	3,058.49	3,046.91	11.58	264.035	
1,800.00	1,797.47	1,760.43	1,760.25	6.24	6.07	92.58	-2,150.39	2,172.93	3,058.76	3,046.45	12.32	248.359	
1,900.00	1,895.62	1,866.36	1,866.16	6.63	6.45	92.98	-2,151.45	2,171.07	3,059.18	3,046.10	13.09	233.757	
2,000.00	1,993.06	1,971.81	1,971.58	7.04	6.83	93.45	-2,152.15	2,169.09	3,059.64	3,045.77	13.88	220.493	
2,100.00	2,089.64	2,071.60	2,071.35	7.48	7.19	93.95	-2,152.56	2,167.21	3,060.34	3,045.67	14.67	208.606	
2,200.00	2,185.27	2,170.65	2,170.39	7.94	7.55	94.50	-2,152.76	2,165.42	3,061.46	3,045.96	15.49	197.620	
2,300.00	2,279.82	2,272.44	2,272.16	8.45	7.91	95.10	-2,152.58	2,163.72	3,063.01	3,046.66	16.36	187.270	
2,400.00	2,373.17	2,360.91	2,360.62	8.99	8.23	95.66	-2,152.20	2,162.34	3,065.17	3,047.95	17.21	178.076	
2,500.00	2,465.21	2,446.36	2,446.06	9.58	8.53	96.23	-2,152.01	2,161.13	3,068.38	3,050.28	18.10	169.496	
2,574.08	2,532.50	2,516.64	2,516.33	10.04	8.78	96.73	-2,151.97	2,160.12	3,071.42	3,052.61	18.82	163.226	
2,600.00	2,555.89	2,551.05	2,550.74	10.21	8.90	97.01	-2,151.87	2,159.55	3,072.53	3,053.43	19.11	160.810	
2,700.00	2,646.16	2,659.60	2,659.26	10.88	9.29	97.90	-2,151.03	2,157.35	3,076.64	3,056.48	20.15	152.662	
2,800.00	2,736.44	2,779.77	2,779.39	11.57	9.72	98.87	-2,149.48	2,154.67	3,080.93	3,059.68	21.26	144.944	
2,900.00	2,826.71	2,879.93	2,879.50	12.27	10.07	99.67	-2,147.29	2,152.16	3,085.00	3,062.70	22.30	138.321	
3,000.00	2,916.98	2,957.02	2,956.55	13.00	10.34	100.29	-2,145.78	2,150.09	3,089.75	3,066.47	23.28	132.700	
3,100.00	3,007.25	3,034.15	3,033.64	13.73	10.61	100.91	-2,144.50	2,148.40	3,095.57	3,071.29	24.27	127.533	
3,200.00	3,097.52	3,116.64	3,116.11	14.48	10.90	101.56	-2,143.08	2,147.04	3,102.22	3,076.94	25.29	122.686	
3,300.00	3,187.80	3,194.53	3,193.98	15.23	11.18	102.17	-2,141.94	2,145.94	3,109.77	3,083.48	26.29	118.300	
3,400.00	3,278.07	3,269.72	3,269.17	15.99	11.44	102.76	-2,141.13	2,145.03	3,118.28	3,091.00	27.28	114.297	
3,500.00	3,368.34	3,345.99	3,345.43	16.76	11.71	103.35	-2,140.57	2,144.37	3,127.79	3,099.51	28.28	110.590	
3,600.00	3,458.61	3,426.59	3,426.03	17.54	12.00	103.97	-2,140.20	2,143.95	3,138.24	3,108.94	29.30	107.110	
3,700.00	3,548.89	3,515.35	3,514.79	18.32	12.31	104.65	-2,139.90	2,143.55	3,149.36	3,119.02	30.35	103.782	
3,800.00	3,639.16	3,605.02	3,604.45	19.10	12.63	105.34	-2,139.63	2,143.14	3,161.06	3,129.67	31.40	100.684	
3,900.00	3,729.43	3,695.07	3,694.50	19.89	12.95	106.02	-2,139.35	2,142.76	3,173.31	3,140.87	32.44	97.806	
4,000.00	3,819.70	3,784.72	3,784.15	20.69	13.27	106.70	-2,139.05	2,142.43	3,186.11	3,152.62	33.49	95.137	
4,100.00	3,909.98	3,871.23	3,870.66	21.48	13.58	107.34	-2,138.81	2,142.16	3,199.49	3,164.97	34.52	92.685	
4,200.00	4,000.25	3,963.81	3,963.24	22.28	13.91	108.03	-2,138.63	2,141.83	3,213.45	3,177.88	35.57	90.338	
4,300.00	4,090.52	4,061.40	4,060.83	23.08	14.25	108.76	-2,138.43	2,141.12	3,227.77	3,191.13	36.64	88.096	
4,400.00	4,180.79	4,163.84	4,163.26	23.88	14.62	109.51	-2,138.07	2,140.02	3,242.35	3,204.62	37.72	85.954	
4,500.00	4,271.06	4,265.77	4,265.18	24.69	14.99	110.27	-2,137.47	2,138.45	3,257.07	3,218.27	38.80	83.951	
4,600.00	4,361.34	4,361.10	4,360.49	25.49	15.33	110.97	-2,136.64	2,136.94	3,272.05	3,232.21	39.84	82.124	
4,700.00	4,451.61	4,451.00	4,450.38	26.30	15.65	111.62	-2,135.85	2,135.38	3,287.48	3,246.62	40.86	80.453	
4,800.00	4,541.88	4,554.10	4,553.45	27.11	16.02	112.37	-2,135.03	2,133.23	3,303.37	3,261.44	41.93	78.789	
4,900.00	4,632.15	4,655.98	4,655.29	27.92	16.38	113.11	-2,133.75	2,130.64	3,319.20	3,276.22	42.98	77.225	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,743.66	4,742.93	28.74	16.70	113.74	-2,132.62	2,128.34	3,335.49	3,291.52	43.98	75.849	
5,100.00	4,812.70	4,831.41	4,830.64	29.55	17.01	114.37	-2,131.56	2,126.10	3,352.37	3,307.40	44.96	74.557	
5,200.00	4,902.97	4,921.27	4,920.47	30.37	17.34	115.00	-2,130.43	2,123.91	3,369.72	3,323.77	45.95	73.328	
5,300.00	4,993.24	5,006.98	5,006.15	31.18	17.64	115.60	-2,129.42	2,121.87	3,387.63	3,340.71	46.92	72.197	
5,400.00	5,083.51	5,097.30	5,096.44	32.00	17.97	116.23	-2,128.37	2,119.79	3,406.05	3,358.15	47.90	71.104	
5,500.00	5,173.79	5,186.85	5,185.96	32.82	18.29	116.84	-2,127.32	2,117.77	3,424.93	3,376.06	48.87	70.079	
5,600.00	5,264.06	5,295.50	5,294.58	33.63	18.68	117.57	-2,125.67	2,115.66	3,444.06	3,394.15	49.91	69.004	
5,700.00	5,354.33	5,386.97	5,386.02	34.45	19.00	118.17	-2,123.80	2,114.41	3,463.31	3,412.44	50.87	68.075	
5,800.00	5,444.60	5,475.78	5,474.80	35.27	19.31	118.74	-2,121.90	2,113.52	3,482.99	3,431.17	51.82	67.212	
5,900.00	5,534.88	5,560.18	5,559.18	36.09	19.61	119.27	-2,120.08	2,113.03	3,503.16	3,450.42	52.74	66.419	
6,000.00	5,625.15	5,644.92	5,643.90	36.91	19.90	119.80	-2,118.36	2,112.82	3,523.90	3,470.24	53.66	65.671	
6,100.00	5,715.42	5,731.05	5,730.02	37.74	20.20	120.33	-2,116.72	2,112.68	3,545.14	3,490.57	54.58	64.959	
6,200.00	5,805.69	5,817.50	5,816.46	38.56	20.50	120.85	-2,115.19	2,112.54	3,566.87	3,511.38	55.49	64.284	
6,300.00	5,895.96	5,907.55	5,906.49	39.38	20.82	121.39	-2,113.65	2,112.42	3,589.01	3,532.61	56.41	63.629	
6,400.00	5,986.24	5,996.71	5,995.65	40.20	21.13	121.92	-2,112.15	2,112.30	3,611.54	3,554.22	57.32	63.011	
6,500.00	6,076.51	6,080.75	6,079.67	41.03	21.42	122.42	-2,110.84	2,112.18	3,634.51	3,576.31	58.20	62.449	
6,600.00	6,166.78	6,176.80	6,175.71	41.85	21.76	122.98	-2,109.39	2,112.04	3,657.88	3,598.75	59.13	61.864	
6,700.00	6,257.05	6,278.18	6,277.08	42.67	22.11	123.56	-2,107.62	2,111.84	3,681.35	3,621.27	60.07	61.281	
6,800.00	6,347.33	6,356.06	6,354.94	43.50	22.38	124.00	-2,106.22	2,111.68	3,705.11	3,644.19	60.92	60.824	
6,900.00	6,437.60	6,434.09	6,432.96	44.32	22.66	124.44	-2,105.19	2,111.59	3,729.61	3,667.86	61.75	60.397	
7,000.00	6,527.87	6,523.23	6,522.10	45.15	22.97	124.94	-2,104.13	2,111.47	3,754.56	3,691.93	62.63	59.949	
7,100.00	6,618.14	6,611.88	6,610.74	45.98	23.28	125.43	-2,103.11	2,111.32	3,779.84	3,716.34	63.50	59.525	
7,200.00	6,708.41	6,695.75	6,694.61	46.80	23.58	125.89	-2,102.25	2,111.17	3,805.54	3,741.19	64.35	59.142	
7,300.00	6,798.69	6,775.28	6,774.14	47.63	23.85	126.32	-2,101.59	2,111.24	3,831.74	3,766.58	65.16	58.803	
7,400.00	6,888.96	6,877.30	6,876.15	48.45	24.20	126.85	-2,100.75	2,111.84	3,858.32	3,792.24	66.07	58.396	
7,500.00	6,979.23	6,973.65	6,972.49	49.28	24.53	127.34	-2,099.60	2,112.64	3,884.84	3,817.89	66.95	58.024	
7,600.00	7,069.50	7,067.92	7,066.75	50.11	24.85	127.82	-2,098.41	2,113.49	3,911.57	3,843.75	67.82	57.675	
7,692.09	7,152.63	7,154.71	7,153.53	50.87	25.15	128.25	-2,097.21	2,114.35	3,936.34	3,867.72	68.62	57.367	
7,700.00	7,159.79	7,162.15	7,160.96	50.93	25.17	127.10	-2,097.11	2,114.42	3,938.42	3,869.74	68.68	57.340	
7,750.00	7,205.70	7,210.49	7,209.30	51.32	25.34	118.38	-2,096.41	2,114.91	3,949.17	3,880.05	69.12	57.138	
7,800.00	7,252.52	7,262.53	7,261.32	51.66	25.52	106.94	-2,095.61	2,115.48	3,955.65	3,886.10	69.56	56.870	
7,850.00	7,299.89	7,317.49	7,316.28	51.96	25.71	92.95	-2,094.69	2,116.14	3,957.81	3,887.81	70.00	56.543	
7,900.00	7,347.44	7,378.47	7,377.24	52.20	25.92	77.83	-2,093.47	2,116.99	3,955.54	3,885.10	70.45	56.150	
7,950.00	7,394.83	7,425.84	7,424.59	52.39	26.08	63.63	-2,092.42	2,117.72	3,948.90	3,878.08	70.82	55.762	
8,000.00	7,441.68	7,465.36	7,464.10	52.53	26.22	51.82	-2,091.60	2,118.29	3,938.09	3,866.96	71.13	55.365	
8,050.00	7,487.65	7,504.95	7,503.68	52.62	26.35	42.67	-2,090.87	2,118.81	3,923.22	3,851.80	71.42	54.931	
8,100.00	7,532.37	7,550.68	7,549.40	52.67	26.51	35.77	-2,090.04	2,119.32	3,904.32	3,832.60	71.72	54.438	
8,150.00	7,575.52	7,594.64	7,593.35	52.67	26.66	30.53	-2,089.25	2,119.72	3,881.49	3,809.50	71.99	53.914	
8,200.00	7,616.76	7,633.10	7,631.80	52.63	26.80	26.46	-2,088.56	2,120.01	3,854.93	3,782.71	72.23	53.374	
8,250.00	7,655.77	7,668.95	7,667.65	52.55	26.92	23.23	-2,087.95	2,120.29	3,824.85	3,752.42	72.43	52.808	
8,300.00	7,692.27	7,703.31	7,702.00	52.44	27.04	20.60	-2,087.38	2,120.57	3,791.46	3,718.84	72.61	52.214	
8,350.00	7,725.97	7,744.92	7,743.60	52.29	27.18	18.43	-2,086.66	2,120.93	3,754.95	3,682.13	72.82	51.567	
8,400.00	7,756.62	7,954.88	7,953.28	52.12	27.91	17.53	-2,077.51	2,125.24	3,714.89	3,641.17	73.71	50.396	
8,450.00	7,783.98	7,986.18	7,984.47	51.92	28.02	15.77	-2,075.33	2,126.45	3,671.75	3,597.90	73.85	49.717	
8,500.00	7,807.85	8,012.68	8,010.88	51.70	28.11	13.95	-2,073.43	2,127.59	3,626.56	3,552.59	73.97	49.030	
8,550.00	7,828.05	8,022.92	8,021.09	51.45	28.15	11.66	-2,072.71	2,128.03	3,579.71	3,505.70	74.01	48.370	
8,600.00	7,844.41	8,034.08	8,032.20	51.20	28.19	8.34	-2,071.92	2,128.52	3,531.53	3,457.49	74.04	47.695	
8,650.00	7,856.82	8,041.82	8,039.92	50.93	28.21	1.70	-2,071.38	2,128.86	3,482.40	3,408.33	74.06	47.018	
8,700.00	7,865.18	8,046.07	8,044.16	50.65	28.23	-21.52	-2,071.09	2,129.05	3,432.67	3,358.60	74.07	46.344	
8,750.00	7,869.43	8,046.78	8,044.86	50.36	28.23	-114.37	-2,071.04	2,129.08	3,382.73	3,308.67	74.06	45.677	
8,776.25	7,870.00	8,045.71	8,043.80	50.21	28.23	-135.46	-2,071.11	2,129.03	3,356.55	3,282.50	74.05	45.330	
8,800.00	7,870.00	8,044.31	8,042.40	50.08	28.22	-135.29	-2,071.21	2,128.97	3,332.91	3,258.87	74.04	45.018	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,038.34	8,036.46	49.53	28.20	-134.55	-2,071.62	2,128.70	3,233.36	3,159.37	73.99	43.702	
9,000.00	7,870.00	8,032.33	8,030.46	49.01	28.18	-133.78	-2,072.05	2,128.44	3,133.82	3,059.89	73.94	42.386	
9,100.00	7,870.00	8,026.26	8,024.42	48.52	28.16	-132.98	-2,072.47	2,128.17	3,034.30	2,960.42	73.88	41.069	
9,200.00	7,870.00	8,020.14	8,018.32	48.06	28.14	-132.15	-2,072.90	2,127.91	2,934.80	2,860.97	73.83	39.751	
9,300.00	7,870.00	8,019.03	8,017.20	47.63	28.13	-131.99	-2,072.96	2,127.88	2,835.31	2,761.51	73.80	38.421	
9,400.00	7,870.00	8,010.42	8,008.63	47.22	28.10	-130.78	-2,073.59	2,127.49	2,735.86	2,662.13	73.73	37.108	
9,500.00	7,870.00	8,001.94	8,000.18	46.83	28.07	-129.53	-2,074.20	2,127.12	2,636.42	2,562.77	73.65	35.795	
9,600.00	7,870.00	7,993.59	7,991.86	46.48	28.05	-128.26	-2,074.80	2,126.76	2,537.01	2,463.43	73.58	34.480	
9,700.00	7,870.00	7,985.37	7,983.67	46.14	28.02	-126.95	-2,075.38	2,126.42	2,437.63	2,364.12	73.50	33.165	
9,800.00	7,870.00	7,977.27	7,975.59	45.83	27.99	-125.60	-2,075.96	2,126.10	2,338.27	2,264.85	73.42	31.848	
9,900.00	7,870.00	7,969.30	7,967.64	45.54	27.96	-124.23	-2,076.51	2,125.78	2,238.94	2,165.60	73.33	30.531	
10,000.00	7,870.00	7,961.44	7,959.81	45.27	27.93	-122.83	-2,077.06	2,125.49	2,139.65	2,066.40	73.24	29.214	
10,100.00	7,870.00	7,953.70	7,952.09	45.03	27.91	-121.40	-2,077.60	2,125.20	2,040.40	1,967.25	73.14	27.896	
10,200.00	7,870.00	7,946.07	7,944.49	44.82	27.88	-119.94	-2,078.12	2,124.93	1,941.20	1,868.16	73.04	26.577	
10,300.00	7,870.00	7,938.55	7,936.99	44.66	27.85	-118.45	-2,078.63	2,124.67	1,842.06	1,769.13	72.93	25.259	
10,400.00	7,870.00	7,931.14	7,929.60	44.56	27.83	-116.94	-2,079.13	2,124.42	1,742.99	1,670.18	72.81	23.940	
10,500.00	7,870.00	7,923.84	7,922.32	44.58	27.80	-115.41	-2,079.62	2,124.19	1,644.00	1,571.32	72.68	22.621	
10,600.00	7,870.00	10,600.00	7,882.49	44.82	37.10	-106.25	-2,081.89	2,123.15	1,545.11	1,463.39	81.71	18.909	
10,700.00	7,870.00	10,700.00	7,878.13	45.36	37.45	-105.18	-2,082.08	2,123.06	1,446.22	1,364.30	81.93	17.653	
10,800.00	7,870.00	7,905.25	7,903.78	46.15	27.74	-111.30	-2,080.84	2,123.62	1,347.71	1,275.49	72.22	18.661	
10,900.00	7,870.00	7,891.72	7,890.28	47.09	27.69	-108.14	-2,081.72	2,123.24	1,249.27	1,177.30	71.97	17.358	
11,000.00	7,870.00	7,880.35	7,878.94	48.13	27.65	-105.39	-2,082.39	2,122.94	1,151.03	1,079.32	71.71	16.051	
11,100.00	7,870.00	7,870.68	7,869.28	49.22	27.62	-102.97	-2,082.92	2,122.71	1,053.06	981.63	71.43	14.743	
11,200.00	7,870.00	7,862.33	7,860.95	50.37	27.59	-100.85	-2,083.34	2,122.52	955.46	884.33	71.12	13.434	
11,300.00	7,870.00	7,855.07	7,853.70	51.55	27.57	-98.97	-2,083.69	2,122.37	858.37	787.58	70.79	12.125	
11,400.00	7,870.00	7,848.69	7,847.32	52.76	27.54	-97.29	-2,083.97	2,122.24	761.99	691.55	70.44	10.818	
11,500.00	7,870.00	7,843.04	7,841.68	54.00	27.52	-95.80	-2,084.20	2,122.13	666.64	596.58	70.06	9.515	
11,600.00	7,870.00	7,838.00	7,836.65	55.27	27.51	-94.46	-2,084.40	2,122.04	572.84	503.12	69.72	8.216	
11,700.00	7,870.00	7,833.48	7,832.13	56.56	27.49	-93.26	-2,084.57	2,121.96	481.51	411.97	69.54	6.924	
11,800.00	7,870.00	7,829.40	7,828.05	57.88	27.48	-92.16	-2,084.72	2,121.89	394.36	324.50	69.87	5.645	
11,900.00	7,870.00	7,825.70	7,824.36	59.21	27.46	-91.17	-2,084.84	2,121.83	314.91	243.29	71.62	4.397	
12,000.00	7,870.00	7,822.33	7,820.99	60.57	27.45	-90.27	-2,084.95	2,121.78	250.58	173.97	76.61	3.271	
12,100.00	7,870.00	7,819.25	7,817.91	61.94	27.44	-89.44	-2,085.04	2,121.74	215.38	130.24	85.14	2.530	
12,132.07	7,870.00	7,818.31	7,816.97	62.39	27.44	-89.19	-2,085.07	2,121.72	212.98	125.28	87.70	2.428	CC, ES, SF
12,200.00	7,870.00	7,816.42	7,815.08	63.33	27.43	-88.68	-2,085.13	2,121.70	223.54	132.59	90.95	2.458	
12,300.00	7,870.00	7,813.81	7,812.47	64.74	27.42	-87.97	-2,085.20	2,121.66	271.18	180.60	90.58	2.994	
12,400.00	7,870.00	7,811.40	7,810.06	66.16	27.41	-87.33	-2,085.27	2,121.63	342.19	254.21	87.98	3.889	
12,500.00	7,870.00	7,809.16	7,807.83	67.59	27.41	-86.73	-2,085.33	2,121.60	425.01	339.48	85.53	4.969	
12,600.00	7,870.00	7,807.09	7,805.75	69.04	27.40	-86.17	-2,085.38	2,121.57	513.97	430.32	83.65	6.145	
12,700.00	7,870.00	7,806.36	7,805.03	70.51	27.40	-85.98	-2,085.40	2,121.56	606.36	524.15	82.21	7.376	
12,800.00	7,870.00	7,804.24	7,802.91	71.98	27.39	-85.41	-2,085.45	2,121.54	700.85	619.69	81.15	8.636	
12,900.00	7,870.00	7,802.15	7,800.81	73.47	27.38	-84.85	-2,085.50	2,121.52	796.68	716.34	80.34	9.916	
13,000.00	7,870.00	7,800.07	7,798.74	74.96	27.37	-84.29	-2,085.54	2,121.49	893.41	813.71	79.70	11.210	
13,100.00	7,870.00	7,798.02	7,796.69	76.47	27.37	-83.75	-2,085.59	2,121.47	990.79	911.61	79.19	12.512	
13,200.00	7,870.00	7,795.99	7,794.66	77.99	27.36	-83.20	-2,085.63	2,121.45	1,088.65	1,009.87	78.77	13.820	
13,300.00	7,870.00	7,793.98	7,792.65	79.51	27.35	-82.67	-2,085.67	2,121.42	1,186.85	1,108.42	78.43	15.133	
13,400.00	7,870.00	7,791.99	7,790.66	81.05	27.35	-82.14	-2,085.72	2,121.40	1,285.33	1,207.19	78.14	16.449	
13,500.00	7,870.00	7,790.02	7,788.69	82.59	27.34	-81.62	-2,085.76	2,121.38	1,384.03	1,306.13	77.90	17.767	
13,600.00	7,870.00	7,788.07	7,786.74	84.14	27.33	-81.11	-2,085.80	2,121.36	1,482.90	1,405.20	77.69	19.087	
13,700.00	7,870.00	7,786.14	7,784.81	85.70	27.33	-80.60	-2,085.84	2,121.34	1,581.90	1,504.39	77.51	20.408	
13,800.00	7,870.00	7,784.23	7,782.91	87.26	27.32	-80.10	-2,085.88	2,121.32	1,681.02	1,603.67	77.36	21.730	
13,900.00	7,870.00	7,782.34	7,781.02	88.83	27.31	-79.61	-2,085.92	2,121.30	1,780.24	1,703.02	77.22	23.053	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,780.47	7,779.15	90.41	27.31	-79.12	-2,085.96	2,121.28	1,879.54	1,802.43	77.11	24.376	
14,100.00	7,870.00	7,778.62	7,777.30	92.00	27.30	-78.64	-2,086.00	2,121.26	1,978.91	1,901.90	77.01	25.698	
14,200.00	7,870.00	7,776.79	7,775.46	93.59	27.29	-78.16	-2,086.03	2,121.24	2,078.33	2,001.42	76.92	27.021	
14,300.00	7,870.00	7,774.97	7,773.65	95.18	27.29	-77.69	-2,086.07	2,121.22	2,177.81	2,100.98	76.84	28.344	
14,400.00	7,870.00	7,773.18	7,771.85	96.79	27.28	-77.23	-2,086.11	2,121.20	2,277.33	2,200.57	76.77	29.666	
14,500.00	7,870.00	7,771.40	7,770.07	98.39	27.28	-76.77	-2,086.14	2,121.19	2,376.89	2,300.19	76.71	30.987	
14,600.00	7,870.00	7,769.63	7,768.31	100.00	27.27	-76.32	-2,086.18	2,121.17	2,476.49	2,399.84	76.65	32.308	
14,700.00	7,870.00	7,767.89	7,766.57	101.62	27.26	-75.88	-2,086.21	2,121.15	2,576.11	2,499.51	76.60	33.629	
14,800.00	7,870.00	7,766.16	7,764.84	103.24	27.26	-75.44	-2,086.25	2,121.13	2,675.76	2,599.20	76.56	34.948	
14,900.00	7,870.00	7,764.45	7,763.13	104.87	27.25	-75.01	-2,086.28	2,121.12	2,775.44	2,698.91	76.53	36.267	
15,000.00	7,870.00	7,762.76	7,761.43	106.50	27.25	-74.58	-2,086.31	2,121.10	2,875.13	2,798.64	76.50	37.585	
15,100.00	7,870.00	7,761.08	7,759.76	108.13	27.24	-74.16	-2,086.35	2,121.08	2,974.85	2,898.38	76.47	38.902	
15,200.00	7,870.00	7,759.42	7,758.09	109.77	27.23	-73.74	-2,086.38	2,121.07	3,074.58	2,998.13	76.45	40.218	
15,300.00	7,870.00	7,757.77	7,756.45	111.41	27.23	-73.33	-2,086.41	2,121.05	3,174.33	3,097.90	76.43	41.533	
15,400.00	7,870.00	7,756.14	7,754.82	113.05	27.22	-72.93	-2,086.44	2,121.03	3,274.09	3,197.68	76.41	42.848	
15,500.00	7,870.00	7,754.52	7,753.20	114.70	27.22	-72.53	-2,086.47	2,121.02	3,373.87	3,297.47	76.40	44.161	
15,600.00	7,870.00	7,752.92	7,751.60	116.35	27.21	-72.14	-2,086.51	2,121.00	3,473.66	3,397.27	76.39	45.472	
15,700.00	7,870.00	7,751.33	7,750.02	118.00	27.21	-71.75	-2,086.54	2,120.99	3,573.46	3,497.07	76.38	46.783	
15,800.00	7,870.00	7,749.76	7,748.44	119.66	27.20	-71.37	-2,086.57	2,120.97	3,673.27	3,596.89	76.38	48.092	
15,900.00	7,870.00	7,748.21	7,746.89	121.32	27.19	-70.99	-2,086.60	2,120.96	3,773.08	3,696.71	76.38	49.401	
16,000.00	7,870.00	7,746.66	7,745.35	122.98	27.19	-70.62	-2,086.62	2,120.94	3,872.91	3,796.53	76.38	50.708	
16,100.00	7,870.00	7,745.14	7,743.82	124.65	27.18	-70.25	-2,086.65	2,120.93	3,972.75	3,896.37	76.38	52.013	
16,200.00	7,870.00	7,743.62	7,742.30	126.32	27.18	-69.89	-2,086.68	2,120.91	4,072.59	3,996.20	76.38	53.317	
16,300.00	7,870.00	7,742.12	7,740.80	127.99	27.17	-69.53	-2,086.71	2,120.90	4,172.44	4,096.05	76.39	54.620	
16,400.00	7,870.00	7,740.63	7,739.32	129.66	27.17	-69.18	-2,086.74	2,120.89	4,272.29	4,195.90	76.40	55.921	
16,500.00	7,870.00	7,739.16	7,737.84	131.33	27.16	-68.83	-2,086.76	2,120.87	4,372.16	4,295.75	76.41	57.221	
16,600.00	7,870.00	7,737.70	7,736.38	133.01	27.16	-68.48	-2,086.79	2,120.86	4,472.02	4,395.60	76.42	58.520	
16,700.00	7,870.00	7,736.25	7,734.93	134.69	27.15	-68.14	-2,086.82	2,120.85	4,571.90	4,495.46	76.43	59.817	
16,800.00	7,870.00	7,734.81	7,733.50	136.37	27.15	-67.81	-2,086.84	2,120.83	4,671.77	4,595.33	76.45	61.112	
16,900.00	7,870.00	7,733.39	7,732.08	138.06	27.14	-67.48	-2,086.87	2,120.82	4,771.65	4,695.19	76.46	62.406	
17,000.00	7,870.00	7,731.98	7,730.67	139.74	27.14	-67.15	-2,086.89	2,120.81	4,871.54	4,795.06	76.48	63.698	
17,100.00	7,870.00	7,730.58	7,729.27	141.43	27.13	-66.83	-2,086.92	2,120.80	4,971.43	4,894.93	76.50	64.989	
17,200.00	7,870.00	7,729.20	7,727.88	143.12	27.13	-66.52	-2,086.94	2,120.78	5,071.33	4,994.81	76.52	66.277	
17,300.00	7,870.00	7,727.82	7,726.51	144.81	27.12	-66.20	-2,086.97	2,120.77	5,171.22	5,094.69	76.54	67.565	
17,400.00	7,870.00	7,726.46	7,725.15	146.50	27.12	-65.90	-2,086.99	2,120.76	5,271.12	5,194.57	76.56	68.850	
17,500.00	7,870.00	7,725.11	7,723.80	148.19	27.11	-65.59	-2,087.02	2,120.75	5,371.03	5,294.45	76.58	70.134	
17,600.00	7,870.00	7,723.77	7,722.46	149.89	27.11	-65.29	-2,087.04	2,120.74	5,470.94	5,394.33	76.61	71.416	
17,700.00	7,870.00	7,722.45	7,721.13	151.59	27.11	-64.99	-2,087.06	2,120.72	5,570.85	5,494.21	76.63	72.696	
17,800.00	7,870.00	7,721.13	7,719.82	153.29	27.10	-64.70	-2,087.08	2,120.71	5,670.76	5,594.10	76.66	73.975	
17,900.00	7,870.00	7,719.83	7,718.51	154.99	27.10	-64.41	-2,087.11	2,120.70	5,770.68	5,693.99	76.69	75.251	
18,000.00	7,870.00	7,718.53	7,717.22	156.69	27.09	-64.13	-2,087.13	2,120.69	5,870.59	5,793.88	76.71	76.526	
18,100.00	7,870.00	7,717.25	7,715.94	158.39	27.09	-63.85	-2,087.15	2,120.68	5,970.51	5,893.77	76.74	77.799	
18,200.00	7,870.00	7,715.98	7,714.66	160.09	27.08	-63.57	-2,087.17	2,120.67	6,070.44	5,993.66	76.77	79.070	
18,300.00	7,870.00	7,714.71	7,713.40	161.80	27.08	-63.30	-2,087.19	2,120.66	6,170.36	6,093.56	76.80	80.338	
18,400.00	7,870.00	7,713.46	7,712.15	163.51	27.07	-63.02	-2,087.22	2,120.65	6,270.29	6,193.45	76.84	81.606	
18,455.45	7,870.00	7,712.77	7,711.46	164.45	27.07	-62.88	-2,087.23	2,120.64	6,325.70	6,248.85	76.85	82.307	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 95-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.50	764.37	2,158.47	2,290.20				
100.00	100.00	81.04	81.04	0.13	0.13	70.50	764.34	2,158.05	2,289.53	2,289.26	0.26	8,693.761	
200.00	200.00	234.91	234.87	0.49	0.66	70.45	765.02	2,154.61	2,287.69	2,286.54	1.15	1,989.004	
300.00	300.00	493.68	492.62	0.85	1.64	70.15	770.36	2,133.41	2,280.33	2,277.86	2.48	920.467	
400.00	400.00	640.36	637.56	1.21	2.25	69.77	778.49	2,112.57	2,268.73	2,265.34	3.40	668.001	
500.00	500.00	742.03	737.40	1.57	2.71	69.40	787.78	2,095.80	2,256.34	2,252.17	4.16	541.805	
600.00	600.00	827.02	820.49	1.93	3.11	69.02	797.96	2,081.16	2,244.29	2,239.41	4.88	459.536	
700.00	700.00	905.86	897.27	2.29	3.50	68.62	809.49	2,067.40	2,233.08	2,227.48	5.60	398.743	
800.00	800.00	981.63	970.75	2.64	3.88	68.18	822.39	2,054.22	2,222.93	2,216.60	6.32	351.550	
900.00	900.00	1,098.13	1,083.23	3.00	4.49	67.45	844.59	2,033.55	2,213.46	2,206.19	7.27	304.424	
1,000.00	1,000.00	1,185.01	1,167.18	3.36	4.96	66.90	860.45	2,017.77	2,203.53	2,195.45	8.08	272.766	
1,100.00	1,100.00	1,285.46	1,264.35	3.72	5.50	66.28	878.57	1,999.90	2,194.10	2,185.14	8.96	244.819	
1,200.00	1,200.00	1,389.41	1,364.26	4.08	6.08	65.57	899.46	1,980.20	2,184.67	2,174.77	9.89	220.808	
1,300.00	1,300.00	1,482.86	1,453.64	4.44	6.63	64.89	919.58	1,961.82	2,175.46	2,164.67	10.80	201.493	
1,400.00	1,399.98	1,574.61	1,541.26	4.79	7.18	21.34	939.85	1,943.66	2,165.11	2,153.41	11.70	185.069	
1,500.00	1,499.84	1,659.90	1,622.83	5.15	7.69	20.83	958.52	1,927.17	2,152.18	2,139.62	12.56	171.295	
1,600.00	1,599.45	1,760.84	1,719.57	5.51	8.29	20.27	980.09	1,908.04	2,136.45	2,122.93	13.52	158.071	
1,700.00	1,698.70	1,856.40	1,811.22	5.87	8.85	19.79	1,000.21	1,889.95	2,117.63	2,103.20	14.44	146.689	
1,800.00	1,797.47	1,954.67	1,905.46	6.24	9.43	19.33	1,020.81	1,871.24	2,095.71	2,080.33	15.37	136.319	
1,900.00	1,895.62	2,039.89	1,987.48	6.63	9.93	19.01	1,037.89	1,855.64	2,071.01	2,054.78	16.23	127.614	
2,000.00	1,993.06	2,159.00	2,102.21	7.04	10.62	18.54	1,061.10	1,833.58	2,042.84	2,025.58	17.27	118.294	
2,100.00	2,089.64	2,260.11	2,199.23	7.48	11.22	18.17	1,081.36	1,813.61	2,010.94	1,992.71	18.23	110.333	
2,200.00	2,185.27	2,351.55	2,286.88	7.94	11.77	17.88	1,099.89	1,795.30	1,975.95	1,956.82	19.14	103.259	
2,300.00	2,279.82	2,439.54	2,371.37	8.45	12.29	17.64	1,117.32	1,777.99	1,938.09	1,918.06	20.02	96.784	
2,400.00	2,373.17	2,521.87	2,450.52	8.99	12.78	17.48	1,133.50	1,762.14	1,897.55	1,876.67	20.88	90.868	
2,500.00	2,465.21	2,598.92	2,524.55	9.58	13.24	17.35	1,149.11	1,747.53	1,854.59	1,832.87	21.72	85.395	
2,574.08	2,532.50	2,657.18	2,580.47	10.04	13.58	17.26	1,161.26	1,736.63	1,821.25	1,798.90	22.35	81.492	
2,600.00	2,555.89	2,677.56	2,600.04	10.21	13.70	17.15	1,165.54	1,732.86	1,809.37	1,786.80	22.57	80.164	
2,700.00	2,646.16	2,751.17	2,670.78	10.88	14.13	16.75	1,181.00	1,719.60	1,763.98	1,740.59	23.39	75.414	
2,800.00	2,736.44	2,835.66	2,752.16	11.57	14.62	16.30	1,198.59	1,705.25	1,719.36	1,695.08	24.27	70.841	
2,900.00	2,826.71	2,934.09	2,847.00	12.27	15.19	15.74	1,218.74	1,688.25	1,674.47	1,649.25	25.22	66.390	
3,000.00	2,916.98	3,021.04	2,930.91	13.00	15.69	15.25	1,235.90	1,673.27	1,629.37	1,603.26	26.11	62.397	
3,100.00	3,007.25	3,110.22	3,017.17	13.73	16.19	14.74	1,253.10	1,658.57	1,584.71	1,557.70	27.01	58.663	
3,200.00	3,097.52	3,212.43	3,115.68	14.48	16.78	14.07	1,273.36	1,640.33	1,539.40	1,511.41	27.99	55.007	
3,300.00	3,187.80	3,303.75	3,203.37	15.23	17.32	13.38	1,292.14	1,623.12	1,493.89	1,464.97	28.92	51.653	
3,400.00	3,278.07	3,392.43	3,288.73	15.99	17.84	12.71	1,309.66	1,606.64	1,448.33	1,418.49	29.84	48.530	
3,500.00	3,368.34	3,477.98	3,371.13	16.76	18.34	12.03	1,326.46	1,590.99	1,403.09	1,372.34	30.75	45.623	
3,600.00	3,458.61	3,567.91	3,457.43	17.54	18.88	11.21	1,345.03	1,573.79	1,357.97	1,326.28	31.69	42.848	
3,700.00	3,548.89	3,654.23	3,540.26	18.32	19.40	10.38	1,362.83	1,557.24	1,313.03	1,280.41	32.62	40.249	
3,800.00	3,639.16	3,735.18	3,618.17	19.10	19.87	9.58	1,379.04	1,542.44	1,268.65	1,235.13	33.53	37.842	
3,900.00	3,729.43	3,824.27	3,703.96	19.89	20.39	8.66	1,396.91	1,526.38	1,224.71	1,190.26	34.45	35.546	
4,000.00	3,819.70	3,911.29	3,787.62	20.69	20.91	7.66	1,414.74	1,510.37	1,181.05	1,145.67	35.38	33.378	
4,100.00	3,909.98	3,999.42	3,872.31	21.48	21.43	6.57	1,432.90	1,494.11	1,137.75	1,101.43	36.32	31.324	
4,200.00	4,000.25	4,088.17	3,957.73	22.28	21.95	5.43	1,450.82	1,478.00	1,094.78	1,057.52	37.26	29.386	
4,300.00	4,090.52	4,180.03	4,046.31	23.08	22.48	4.18	1,468.79	1,461.59	1,052.02	1,013.82	38.19	27.543	
4,400.00	4,180.79	4,272.39	4,135.20	23.88	23.02	2.78	1,487.01	1,444.40	1,009.32	970.17	39.14	25.785	
4,500.00	4,271.06	4,365.43	4,224.75	24.69	23.57	1.25	1,505.05	1,426.75	966.69	926.59	40.10	24.108	
4,600.00	4,361.34	4,444.30	4,300.79	25.49	24.03	-0.13	1,519.97	1,412.06	924.57	883.54	41.03	22.533	
4,700.00	4,451.61	4,530.32	4,383.60	26.30	24.53	-1.77	1,537.27	1,396.51	884.17	842.18	41.99	21.055	
4,800.00	4,541.88	4,628.05	4,477.59	27.11	25.11	-3.85	1,556.43	1,377.78	843.57	800.58	42.99	19.621	
4,900.00	4,632.15	4,718.51	4,565.02	27.92	25.62	-5.85	1,572.76	1,361.28	803.27	759.30	43.97	18.267	
5,000.00	4,722.43	4,812.39	4,656.68	28.74	26.10	-7.82	1,587.13	1,347.00	763.48	718.55	44.92	16.995	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 95-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,906.64	4,749.33	29.55	26.54	-9.76	1,599.10	1,334.51	723.49	677.64	45.85	15.781	
5,200.00	4,902.97	4,994.93	4,836.44	30.37	26.92	-11.62	1,609.15	1,324.27	684.04	637.27	46.77	14.625	
5,300.00	4,993.24	5,085.35	4,925.86	31.18	27.30	-13.61	1,618.87	1,315.05	645.46	597.76	47.70	13.532	
5,400.00	5,083.51	5,181.86	5,021.73	32.00	27.66	-15.68	1,627.04	1,307.59	606.90	558.30	48.59	12.490	
5,500.00	5,173.79	5,278.80	5,118.38	32.82	27.97	-17.66	1,632.65	1,302.89	568.02	518.58	49.44	11.488	
5,600.00	5,264.06	5,376.91	5,216.40	33.63	28.25	-19.63	1,635.87	1,300.10	528.45	478.19	50.26	10.514	
5,700.00	5,354.33	5,472.44	5,311.92	34.45	28.49	-21.58	1,636.88	1,299.02	488.17	437.09	51.07	9.558	
5,800.00	5,444.60	5,563.26	5,402.74	35.27	28.70	-23.59	1,636.78	1,298.98	447.78	395.83	51.95	8.620	
5,900.00	5,534.88	5,652.65	5,492.12	36.09	28.89	-25.87	1,636.79	1,299.47	408.23	355.32	52.91	7.716	
6,000.00	5,625.15	5,744.11	5,583.58	36.91	29.10	-28.71	1,636.66	1,299.79	369.20	315.27	53.93	6.846	
6,100.00	5,715.42	5,834.22	5,673.69	37.74	29.30	-32.15	1,636.54	1,299.93	331.09	275.98	55.11	6.008	
6,200.00	5,805.69	5,924.13	5,763.61	38.56	29.51	-36.46	1,636.49	1,299.85	294.37	237.89	56.48	5.212	
6,300.00	5,895.96	6,013.31	5,852.79	39.38	29.73	-41.88	1,636.77	1,299.52	259.95	201.84	58.11	4.474	
6,400.00	5,986.24	6,103.89	5,943.36	40.20	29.96	-48.75	1,637.14	1,299.42	228.52	168.58	59.94	3.812	
6,500.00	6,076.51	6,193.29	6,032.76	41.03	30.18	-57.27	1,637.69	1,299.32	201.55	139.53	62.02	3.250	
6,600.00	6,166.78	6,283.96	6,123.43	41.85	30.41	-67.77	1,638.56	1,299.50	180.90	116.81	64.09	2.823	
6,700.00	6,257.05	6,374.52	6,213.98	42.67	30.64	-79.88	1,639.61	1,300.05	168.45	102.55	65.91	2.556	
6,775.40	6,325.12	6,443.38	6,282.83	43.30	30.82	-89.77	1,640.36	1,300.49	165.54	98.61	66.93	2.473	CC, ES
6,800.00	6,347.33	6,465.82	6,305.27	43.50	30.88	-93.03	1,640.56	1,300.63	165.85	98.67	67.18	2.469	SF
6,900.00	6,437.60	6,557.69	6,397.12	44.32	31.11	-105.68	1,642.08	1,301.92	173.27	105.52	67.76	2.557	
7,000.00	6,527.87	6,648.12	6,487.51	45.15	31.34	-116.73	1,643.63	1,303.47	189.24	121.54	67.71	2.795	
7,100.00	6,618.14	6,738.40	6,577.79	45.98	31.57	-126.14	1,644.70	1,304.31	212.65	145.40	67.25	3.162	
7,200.00	6,708.41	6,830.98	6,670.35	46.80	31.81	-133.85	1,646.02	1,305.44	240.76	174.02	66.74	3.607	
7,300.00	6,798.69	6,923.51	6,762.86	47.63	32.04	-140.28	1,646.02	1,307.27	271.80	205.53	66.27	4.101	
7,400.00	6,888.96	7,005.43	6,844.77	48.45	32.25	-144.84	1,646.12	1,308.18	306.19	240.36	65.83	4.651	
7,500.00	6,979.23	7,094.17	6,933.50	49.28	32.49	-148.62	1,646.76	1,306.59	344.63	278.90	65.73	5.243	
7,600.00	7,069.50	7,186.83	7,026.15	50.11	32.75	-151.82	1,647.61	1,305.72	383.41	317.54	65.86	5.821	
7,692.09	7,152.63	7,270.98	7,110.29	50.87	32.98	-154.28	1,648.09	1,305.31	419.62	353.57	66.05	6.353	
7,700.00	7,159.79	7,278.25	7,117.57	50.93	33.00	-156.00	1,648.13	1,305.29	422.73	356.66	66.07	6.398	
7,750.00	7,205.70	7,324.96	7,164.27	51.32	33.13	-167.76	1,648.43	1,305.17	441.62	375.34	66.28	6.663	
7,800.00	7,252.52	7,372.76	7,212.07	51.66	33.26	178.59	1,648.65	1,305.19	458.94	392.38	66.57	6.894	
7,850.00	7,299.89	7,421.19	7,260.50	51.96	33.39	163.16	1,648.74	1,305.39	474.52	407.58	66.94	7.089	
7,900.00	7,347.44	7,468.13	7,307.44	52.20	33.51	147.24	1,648.78	1,305.60	488.39	421.05	67.34	7.253	
7,950.00	7,394.83	7,515.14	7,354.45	52.39	33.64	132.91	1,648.81	1,305.77	500.63	432.81	67.81	7.382	
8,000.00	7,441.68	7,561.57	7,400.88	52.53	33.76	121.52	1,648.74	1,305.94	511.36	443.02	68.34	7.482	
8,050.00	7,487.65	7,607.30	7,446.61	52.62	33.87	113.24	1,648.53	1,306.11	520.79	451.86	68.93	7.555	
8,100.00	7,532.37	7,652.45	7,491.76	52.67	33.99	107.60	1,648.31	1,306.29	529.15	459.57	69.58	7.605	
8,150.00	7,575.52	7,695.99	7,535.29	52.67	34.10	103.94	1,648.14	1,306.47	536.75	466.47	70.28	7.638	
8,200.00	7,616.76	7,737.67	7,576.98	52.63	34.21	101.70	1,647.95	1,306.67	543.97	472.96	71.01	7.660	
8,250.00	7,655.77	7,777.32	7,616.62	52.55	34.31	100.46	1,647.66	1,306.91	551.24	479.47	71.77	7.680	
8,300.00	7,692.27	7,813.88	7,653.18	52.44	34.40	99.84	1,647.30	1,307.15	558.99	486.45	72.54	7.706	
8,350.00	7,725.97	7,847.17	7,686.46	52.29	34.49	99.55	1,646.99	1,307.33	567.70	494.41	73.29	7.746	
8,400.00	7,756.62	7,877.42	7,716.72	52.12	34.56	99.43	1,646.73	1,307.45	577.79	503.77	74.01	7.806	
8,450.00	7,783.98	7,904.80	7,744.09	51.92	34.63	99.30	1,646.50	1,307.52	589.57	514.88	74.69	7.893	
8,500.00	7,807.85	7,928.99	7,768.29	51.70	34.70	99.03	1,646.28	1,307.58	603.32	528.02	75.30	8.012	
8,550.00	7,828.05	7,949.58	7,788.88	51.45	34.75	98.47	1,646.09	1,307.63	619.21	543.39	75.83	8.166	
8,600.00	7,844.41	7,966.39	7,805.69	51.20	34.79	97.53	1,645.93	1,307.67	637.32	561.07	76.26	8.358	
8,650.00	7,856.82	7,979.29	7,818.58	50.93	34.82	96.15	1,645.80	1,307.70	657.64	581.05	76.59	8.586	
8,700.00	7,865.18	7,988.19	7,827.48	50.65	34.85	94.28	1,645.71	1,307.71	680.04	603.20	76.84	8.851	
8,750.00	7,869.43	7,992.99	7,832.28	50.36	34.86	91.91	1,645.66	1,307.72	704.32	627.32	76.99	9.148	
8,776.25	7,870.00	7,993.83	7,833.12	50.21	34.86	90.48	1,645.65	1,307.73	717.72	640.68	77.04	9.316	
8,800.00	7,870.00	7,994.08	7,833.37	50.08	34.86	90.50	1,645.65	1,307.73	730.32	653.24	77.07	9.476	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 95-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,995.11	7,834.40	49.53	34.87	90.60	1,645.63	1,307.73	789.01	711.92	77.09	10.235	
9,000.00	7,870.00	7,996.14	7,835.43	49.01	34.87	90.69	1,645.62	1,307.73	855.40	778.42	76.98	11.113	
9,100.00	7,870.00	7,997.17	7,836.46	48.52	34.87	90.79	1,645.61	1,307.73	927.83	851.04	76.79	12.083	
9,200.00	7,870.00	7,998.20	7,837.49	48.06	34.87	90.89	1,645.60	1,307.73	1,005.00	928.43	76.57	13.125	
9,300.00	7,870.00	7,999.22	7,838.51	47.63	34.88	90.98	1,645.59	1,307.74	1,085.91	1,009.57	76.34	14.225	
9,400.00	7,870.00	8,000.25	7,839.54	47.22	34.88	91.08	1,645.58	1,307.74	1,169.77	1,093.66	76.10	15.371	
9,500.00	7,870.00	8,001.28	7,840.57	46.83	34.88	91.17	1,645.57	1,307.74	1,255.99	1,180.11	75.88	16.552	
9,600.00	7,870.00	8,002.30	7,841.59	46.48	34.88	91.27	1,645.56	1,307.74	1,344.12	1,268.46	75.67	17.764	
9,700.00	7,870.00	8,003.33	7,842.62	46.14	34.89	91.36	1,645.55	1,307.75	1,433.81	1,358.35	75.46	19.000	
9,800.00	7,870.00	8,004.35	7,843.64	45.83	34.89	91.46	1,645.54	1,307.75	1,524.79	1,449.51	75.28	20.255	
9,900.00	7,870.00	8,005.38	7,844.67	45.54	34.89	91.56	1,645.53	1,307.75	1,616.83	1,541.72	75.10	21.528	
10,000.00	7,870.00	8,006.40	7,845.69	45.27	34.89	91.65	1,645.52	1,307.75	1,709.76	1,634.81	74.94	22.814	
10,100.00	7,870.00	8,007.42	7,846.71	45.03	34.90	91.75	1,645.51	1,307.76	1,803.45	1,728.65	74.80	24.111	
10,200.00	7,870.00	8,008.45	7,847.74	44.82	34.90	91.84	1,645.50	1,307.76	1,897.78	1,823.12	74.66	25.419	
10,300.00	7,870.00	8,009.47	7,848.76	44.66	34.90	91.94	1,645.49	1,307.76	1,992.66	1,918.13	74.53	26.735	
10,400.00	7,870.00	8,010.49	7,849.78	44.56	34.91	92.03	1,645.48	1,307.76	2,088.02	2,013.61	74.42	28.058	
10,500.00	7,870.00	8,011.51	7,850.80	44.58	34.91	92.13	1,645.47	1,307.76	2,183.80	2,109.49	74.31	29.388	
10,600.00	7,870.00	8,012.53	7,851.82	44.82	34.91	92.22	1,645.46	1,307.77	2,279.94	2,205.73	74.21	30.723	
10,700.00	7,870.00	8,013.55	7,852.84	45.36	34.91	92.32	1,645.45	1,307.77	2,376.39	2,302.28	74.12	32.062	
10,800.00	7,870.00	8,014.56	7,853.86	46.15	34.92	92.41	1,645.44	1,307.77	2,473.13	2,399.10	74.03	33.406	
10,900.00	7,870.00	8,015.58	7,854.87	47.09	34.92	92.51	1,645.43	1,307.77	2,570.12	2,496.16	73.95	34.753	
11,000.00	7,870.00	8,016.60	7,855.89	48.13	34.92	92.60	1,645.42	1,307.78	2,667.33	2,593.45	73.88	36.102	
11,100.00	7,870.00	8,017.62	7,856.91	49.22	34.92	92.70	1,645.40	1,307.78	2,764.74	2,690.92	73.82	37.455	
11,200.00	7,870.00	8,018.63	7,857.92	50.37	34.93	92.79	1,645.39	1,307.78	2,862.32	2,788.57	73.75	38.810	
11,300.00	7,870.00	8,019.65	7,858.94	51.55	34.93	92.89	1,645.38	1,307.78	2,960.07	2,886.37	73.70	40.166	
11,400.00	7,870.00	8,020.66	7,859.95	52.76	34.93	92.98	1,645.37	1,307.79	3,057.96	2,984.32	73.64	41.524	
11,500.00	7,870.00	8,021.67	7,860.97	54.00	34.93	93.08	1,645.36	1,307.79	3,155.99	3,082.39	73.59	42.884	
11,600.00	7,870.00	8,022.69	7,861.98	55.27	34.94	93.17	1,645.35	1,307.79	3,254.13	3,180.58	73.55	44.245	
11,700.00	7,870.00	8,023.70	7,862.99	56.56	34.94	93.26	1,645.34	1,307.79	3,352.38	3,278.88	73.51	45.606	
11,800.00	7,870.00	8,024.71	7,864.00	57.88	34.94	93.36	1,645.33	1,307.80	3,450.74	3,377.27	73.47	46.969	
11,900.00	7,870.00	8,025.72	7,865.01	59.21	34.94	93.45	1,645.32	1,307.80	3,549.18	3,475.75	73.43	48.332	
12,000.00	7,870.00	8,026.73	7,866.02	60.57	34.95	93.55	1,645.31	1,307.80	3,647.71	3,574.31	73.40	49.695	
12,100.00	7,870.00	8,027.74	7,867.03	61.94	34.95	93.64	1,645.30	1,307.80	3,746.32	3,672.95	73.37	51.059	
12,200.00	7,870.00	8,028.75	7,868.04	63.33	34.95	93.73	1,645.29	1,307.81	3,845.00	3,771.65	73.35	52.423	
12,300.00	7,870.00	8,029.76	7,869.05	64.74	34.95	93.83	1,645.28	1,307.81	3,943.74	3,870.42	73.32	53.786	
12,400.00	7,870.00	8,030.77	7,870.06	66.16	34.96	93.92	1,645.27	1,307.81	4,042.55	3,969.25	73.30	55.150	
12,500.00	7,870.00	8,031.78	7,871.07	67.59	34.96	94.01	1,645.26	1,307.81	4,141.41	4,068.13	73.28	56.514	
12,600.00	7,870.00	8,032.78	7,872.07	69.04	34.96	94.11	1,645.25	1,307.82	4,240.33	4,167.06	73.26	57.877	
12,700.00	7,870.00	8,033.79	7,873.08	70.51	34.97	94.20	1,645.24	1,307.82	4,339.30	4,266.05	73.25	59.240	
12,800.00	7,870.00	8,034.80	7,874.09	71.98	34.97	94.30	1,645.23	1,307.82	4,438.31	4,365.07	73.24	60.602	
12,900.00	7,870.00	8,035.80	7,875.09	73.47	34.97	94.39	1,645.22	1,307.82	4,537.36	4,464.14	73.23	61.964	
13,000.00	7,870.00	8,036.80	7,876.09	74.96	34.97	94.48	1,645.21	1,307.83	4,636.46	4,563.24	73.22	63.325	
13,100.00	7,870.00	8,037.81	7,877.10	76.47	34.98	94.57	1,645.20	1,307.83	4,735.59	4,662.38	73.21	64.686	
13,200.00	7,870.00	8,038.81	7,878.10	77.99	34.98	94.67	1,645.19	1,307.83	4,834.76	4,761.56	73.20	66.046	
13,300.00	7,870.00	8,039.81	7,879.10	79.51	34.98	94.76	1,645.18	1,307.83	4,933.96	4,860.76	73.20	67.404	
13,400.00	7,870.00	8,040.82	7,880.10	81.05	34.98	94.85	1,645.17	1,307.84	5,033.20	4,960.00	73.20	68.762	
13,500.00	7,870.00	8,041.82	7,881.11	82.59	34.99	94.95	1,645.16	1,307.84	5,132.46	5,059.26	73.20	70.119	
13,600.00	7,870.00	8,042.82	7,882.11	84.14	34.99	95.04	1,645.15	1,307.84	5,231.75	5,158.55	73.20	71.475	
13,700.00	7,870.00	8,043.82	7,883.11	85.70	34.99	95.13	1,645.14	1,307.85	5,331.07	5,257.87	73.20	72.830	
13,800.00	7,870.00	8,044.82	7,884.11	87.26	34.99	95.22	1,645.13	1,307.85	5,430.41	5,357.21	73.20	74.183	
13,900.00	7,870.00	8,045.81	7,885.10	88.83	35.00	95.32	1,645.12	1,307.85	5,529.78	5,456.57	73.21	75.536	
14,000.00	7,870.00	8,046.81	7,886.10	90.41	35.00	95.41	1,645.11	1,307.85	5,629.16	5,555.95	73.21	76.887	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 95-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	8,047.81	7,887.10	92.00	35.00	95.50	1,645.10	1,307.86	5,728.57	5,655.35	73.22	78.236	
14,200.00	7,870.00	8,048.81	7,888.10	93.59	35.00	95.59	1,645.09	1,307.86	5,828.00	5,754.77	73.23	79.585	
14,300.00	7,870.00	8,049.80	7,889.09	95.18	35.01	95.69	1,645.08	1,307.86	5,927.45	5,854.21	73.24	80.932	
14,400.00	7,870.00	8,050.80	7,890.09	96.79	35.01	95.78	1,645.07	1,307.87	6,026.92	5,953.67	73.25	82.277	
14,500.00	7,870.00	8,051.79	7,891.08	98.39	35.01	95.87	1,645.06	1,307.87	6,126.40	6,053.14	73.26	83.621	
14,600.00	7,870.00	8,052.79	7,892.08	100.00	35.01	95.96	1,645.05	1,307.87	6,225.90	6,152.62	73.28	84.963	
14,700.00	7,870.00	8,053.78	7,893.07	101.62	35.02	96.05	1,645.04	1,307.87	6,325.42	6,252.12	73.29	86.304	
14,800.00	7,870.00	8,054.77	7,894.06	103.24	35.02	96.15	1,645.03	1,307.88	6,424.95	6,351.64	73.31	87.643	
14,900.00	7,870.00	8,055.77	7,895.06	104.87	35.02	96.24	1,645.02	1,307.88	6,524.49	6,451.17	73.33	88.980	
15,000.00	7,870.00	8,056.76	7,896.05	106.50	35.02	96.33	1,645.01	1,307.88	6,624.05	6,550.71	73.34	90.315	
15,100.00	7,870.00	8,057.75	7,897.04	108.13	35.03	96.42	1,645.00	1,307.88	6,723.62	6,650.26	73.36	91.649	
15,200.00	7,870.00	8,058.74	7,898.03	109.77	35.03	96.51	1,644.99	1,307.89	6,823.21	6,749.82	73.38	92.981	
15,300.00	7,870.00	8,059.73	7,899.02	111.41	35.03	96.60	1,644.98	1,307.89	6,922.80	6,849.40	73.40	94.311	
15,400.00	7,870.00	8,060.72	7,900.01	113.05	35.03	96.69	1,644.97	1,307.89	7,022.41	6,948.98	73.43	95.639	
15,500.00	7,870.00	8,061.71	7,901.00	114.70	35.04	96.79	1,644.96	1,307.90	7,122.03	7,048.58	73.45	96.965	
15,600.00	7,870.00	8,062.70	7,901.98	116.35	35.04	96.88	1,644.95	1,307.90	7,221.65	7,148.18	73.47	98.289	
15,700.00	7,870.00	8,063.68	7,902.97	118.00	35.04	96.97	1,644.94	1,307.90	7,321.29	7,247.79	73.50	99.611	
15,800.00	7,870.00	8,064.67	7,903.96	119.66	35.04	97.06	1,644.93	1,307.91	7,420.94	7,347.41	73.52	100.931	
15,900.00	7,870.00	8,065.66	7,904.94	121.32	35.05	97.15	1,644.92	1,307.91	7,520.60	7,447.04	73.55	102.249	
16,000.00	7,870.00	8,066.64	7,905.93	122.98	35.05	97.24	1,644.91	1,307.91	7,620.26	7,546.68	73.58	103.565	
16,100.00	7,870.00	8,067.63	7,906.92	124.65	35.05	97.33	1,644.90	1,307.91	7,719.94	7,646.33	73.61	104.879	
16,200.00	7,870.00	8,068.61	7,907.90	126.32	35.06	97.42	1,644.89	1,307.92	7,819.62	7,745.98	73.64	106.190	
16,300.00	7,870.00	8,069.60	7,908.88	127.99	35.06	97.51	1,644.88	1,307.92	7,919.31	7,845.64	73.67	107.499	
16,400.00	7,870.00	8,070.58	7,909.87	129.66	35.06	97.60	1,644.87	1,307.92	8,019.01	7,945.31	73.70	108.806	
16,500.00	7,870.00	8,071.56	7,910.85	131.33	35.06	97.69	1,644.86	1,307.93	8,118.71	8,044.98	73.73	110.111	
16,600.00	7,870.00	8,072.54	7,911.83	133.01	35.07	97.78	1,644.85	1,307.93	8,218.42	8,144.66	73.77	111.413	
16,700.00	7,870.00	8,073.52	7,912.81	134.69	35.07	97.87	1,644.84	1,307.93	8,318.14	8,244.34	73.80	112.713	
16,800.00	7,870.00	8,074.51	7,913.79	136.37	35.07	97.96	1,644.83	1,307.93	8,417.87	8,344.04	73.83	114.010	
16,900.00	7,870.00	8,075.49	7,914.77	138.06	35.07	98.05	1,644.82	1,307.94	8,517.60	8,443.73	73.87	115.306	
17,000.00	7,870.00	8,076.46	7,915.75	139.74	35.08	98.14	1,644.81	1,307.94	8,617.34	8,543.43	73.91	116.598	
17,100.00	7,870.00	8,077.44	7,916.73	141.43	35.08	98.23	1,644.80	1,307.94	8,717.08	8,643.14	73.94	117.889	
17,200.00	7,870.00	8,078.42	7,917.71	143.12	35.08	98.32	1,644.79	1,307.95	8,816.83	8,742.85	73.98	119.176	
17,300.00	7,870.00	8,079.61	7,918.90	144.81	35.08	98.43	1,644.78	1,307.95	8,916.59	8,842.57	74.02	120.462	
17,400.00	7,870.00	8,081.13	7,920.41	146.50	35.09	98.57	1,644.76	1,307.96	9,016.35	8,942.29	74.06	121.744	
17,500.00	7,870.00	8,082.65	7,921.94	148.19	35.09	98.71	1,644.75	1,307.96	9,116.11	9,042.01	74.10	123.025	
17,600.00	7,870.00	8,084.19	7,923.48	149.89	35.10	98.85	1,644.73	1,307.97	9,215.89	9,141.74	74.14	124.302	
17,700.00	7,870.00	8,085.75	7,925.04	151.59	35.10	98.99	1,644.72	1,307.97	9,315.66	9,241.48	74.18	125.577	
17,800.00	7,870.00	8,087.33	7,926.61	153.29	35.10	99.13	1,644.70	1,307.98	9,415.44	9,341.21	74.23	126.850	
17,900.00	7,870.00	8,088.92	7,928.21	154.99	35.11	99.28	1,644.69	1,307.98	9,515.22	9,440.96	74.27	128.119	
18,000.00	7,870.00	8,090.53	7,929.81	156.69	35.11	99.42	1,644.67	1,307.99	9,615.01	9,540.70	74.31	129.386	
18,100.00	7,870.00	8,092.15	7,931.44	158.39	35.12	99.57	1,644.65	1,308.00	9,714.81	9,640.45	74.36	130.650	
18,200.00	7,870.00	8,093.79	7,933.08	160.09	35.12	99.72	1,644.63	1,308.00	9,814.60	9,740.20	74.40	131.912	
18,300.00	7,870.00	8,095.45	7,934.74	161.80	35.12	99.87	1,644.62	1,308.01	9,914.40	9,839.95	74.45	133.170	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.25	-2,062.50	2,192.32	3,010.31				
100.00	100.00	73.54	73.54	0.13	0.12	133.25	-2,062.41	2,192.15	3,009.87	3,009.61	0.25	N/A	
200.00	200.00	194.74	194.73	0.49	0.46	133.25	-2,061.61	2,191.41	3,008.97	3,008.01	0.95	3,154.992	
300.00	300.00	880.27	872.61	0.85	3.25	132.17	-1,973.35	2,178.94	3,003.27	2,999.25	4.02	747.074	
400.00	400.00	1,207.95	1,184.04	1.21	5.13	130.92	-1,873.60	2,161.28	2,977.22	2,971.32	5.89	505.183	
500.00	500.00	1,361.45	1,326.96	1.57	6.14	130.20	-1,818.40	2,151.86	2,948.25	2,941.25	7.01	420.870	
600.00	600.00	1,514.21	1,468.14	1.93	7.19	129.42	-1,760.91	2,141.98	2,918.43	2,910.28	8.15	358.029	
700.00	700.00	1,627.99	1,572.31	2.29	8.02	128.80	-1,715.85	2,134.01	2,886.88	2,877.75	9.13	316.351	
800.00	800.00	1,722.65	1,658.73	2.64	8.72	128.26	-1,677.75	2,127.63	2,855.34	2,845.33	10.01	285.122	
900.00	900.00	1,808.27	1,736.91	3.00	9.36	127.76	-1,643.40	2,121.49	2,823.82	2,812.96	10.86	259.903	
1,000.00	1,000.00	1,873.00	1,796.24	3.36	9.83	127.39	-1,617.87	2,117.16	2,793.30	2,781.69	11.61	240.612	
1,100.00	1,100.00	1,982.06	1,896.27	3.72	10.64	126.74	-1,575.03	2,109.95	2,763.21	2,750.61	12.60	219.222	
1,200.00	1,200.00	2,042.37	1,951.81	4.08	11.07	126.39	-1,551.89	2,105.78	2,733.64	2,720.31	13.34	204.991	
1,300.00	1,300.00	2,141.55	2,043.47	4.44	11.79	125.82	-1,514.66	2,098.71	2,704.76	2,690.48	14.28	189.446	
1,400.00	1,399.98	2,259.34	2,151.87	4.79	12.65	82.82	-1,469.39	2,090.11	2,675.20	2,659.87	15.33	174.536	
1,500.00	1,499.84	2,365.69	2,249.39	5.15	13.45	82.92	-1,427.77	2,081.83	2,644.61	2,628.29	16.32	162.011	
1,600.00	1,599.45	2,443.80	2,321.14	5.51	14.03	83.23	-1,397.54	2,075.62	2,613.91	2,596.74	17.17	152.260	
1,700.00	1,698.70	2,513.81	2,385.76	5.87	14.53	83.63	-1,371.18	2,070.13	2,583.64	2,565.67	17.96	143.823	
1,800.00	1,797.47	2,641.07	2,502.89	6.24	15.47	83.91	-1,322.27	2,060.99	2,553.16	2,534.08	19.08	133.832	
1,900.00	1,895.62	2,709.74	2,565.75	6.63	15.99	84.40	-1,294.96	2,056.70	2,522.15	2,502.24	19.91	126.662	
2,000.00	1,993.06	2,819.64	2,666.59	7.04	16.81	84.90	-1,251.92	2,049.42	2,490.98	2,470.01	20.97	118.780	
2,100.00	2,089.64	2,954.77	2,790.77	7.48	17.82	85.58	-1,199.98	2,037.50	2,458.21	2,436.06	22.15	110.978	
2,200.00	2,185.27	3,061.11	2,887.76	7.94	18.63	86.35	-1,157.38	2,028.16	2,424.25	2,401.04	23.22	104.418	
2,300.00	2,279.82	3,210.05	3,022.66	8.45	19.80	87.29	-1,095.72	2,014.68	2,389.20	2,364.67	24.53	97.402	
2,400.00	2,373.17	3,265.26	3,072.65	8.99	20.24	88.18	-1,072.85	2,009.58	2,353.55	2,328.15	25.41	92.640	
2,500.00	2,465.21	3,339.55	3,140.19	9.58	20.82	89.17	-1,042.60	2,003.06	2,318.78	2,292.38	26.40	87.827	
2,574.08	2,532.50	3,396.13	3,191.68	10.04	21.26	89.95	-1,019.59	1,998.46	2,293.44	2,266.27	27.17	84.418	
2,600.00	2,555.89	3,414.54	3,208.44	10.21	21.40	90.03	-1,012.14	1,997.03	2,284.68	2,257.25	27.43	83.282	
2,700.00	2,646.16	3,490.52	3,277.83	10.88	21.98	90.38	-981.68	1,991.44	2,251.52	2,223.02	28.50	79.015	
2,800.00	2,736.44	3,602.74	3,380.53	11.57	22.84	90.95	-937.32	1,982.55	2,218.45	2,188.72	29.73	74.620	
2,900.00	2,826.71	3,702.95	3,471.42	12.27	23.62	91.42	-895.84	1,974.91	2,184.51	2,153.57	30.94	70.609	
3,000.00	2,916.98	3,776.97	3,538.69	13.00	24.20	91.78	-865.39	1,969.73	2,151.31	2,119.26	32.05	67.126	
3,100.00	3,007.25	3,861.30	3,615.70	13.73	24.84	92.22	-831.56	1,963.64	2,118.77	2,085.57	33.20	63.816	
3,200.00	3,097.52	3,937.48	3,685.62	14.48	25.42	92.65	-801.89	1,957.96	2,086.96	2,052.64	34.31	60.819	
3,300.00	3,187.80	4,028.37	3,769.19	15.23	26.10	93.17	-766.71	1,951.57	2,055.78	2,020.29	35.49	57.929	
3,400.00	3,278.07	4,124.92	3,857.69	15.99	26.82	93.72	-728.63	1,945.34	2,024.71	1,988.02	36.69	55.180	
3,500.00	3,368.34	4,226.85	3,951.17	16.76	27.59	94.33	-688.62	1,938.20	1,993.54	1,955.63	37.91	52.589	
3,600.00	3,458.61	4,295.25	4,014.09	17.54	28.10	94.77	-662.26	1,933.25	1,962.89	1,923.88	39.00	50.325	
3,700.00	3,548.89	4,374.18	4,087.13	18.32	28.67	95.30	-632.82	1,927.83	1,933.53	1,893.40	40.13	48.187	
3,800.00	3,639.16	4,472.35	4,178.02	19.10	29.38	95.99	-596.32	1,921.25	1,904.62	1,863.32	41.29	46.123	
3,900.00	3,729.43	4,569.88	4,268.30	19.89	30.09	96.70	-560.13	1,914.03	1,875.51	1,833.06	42.45	44.182	
4,000.00	3,819.70	4,670.12	4,360.94	20.69	30.82	97.44	-522.50	1,906.91	1,846.57	1,802.96	43.61	42.345	
4,100.00	3,909.98	4,755.54	4,439.72	21.48	31.45	98.08	-490.03	1,900.94	1,817.65	1,772.92	44.73	40.634	
4,200.00	4,000.25	4,835.17	4,513.27	22.28	32.03	98.68	-459.92	1,896.15	1,789.76	1,743.92	45.84	39.043	
4,300.00	4,090.52	4,910.30	4,583.12	23.08	32.56	99.30	-432.75	1,890.96	1,762.81	1,715.90	46.91	37.577	
4,400.00	4,180.79	4,968.04	4,637.33	23.88	32.95	99.82	-413.29	1,886.78	1,737.78	1,689.86	47.92	36.265	
4,500.00	4,271.06	5,029.88	4,695.89	24.69	33.35	100.43	-393.88	1,882.47	1,715.00	1,666.10	48.90	35.072	
4,600.00	4,361.34	5,094.04	4,756.98	25.49	33.75	101.07	-374.69	1,878.51	1,694.31	1,644.45	49.86	33.982	
4,700.00	4,451.61	5,158.48	4,818.69	26.30	34.13	101.74	-356.49	1,874.94	1,675.74	1,624.95	50.79	32.993	
4,800.00	4,541.88	5,225.12	4,882.86	27.11	34.50	102.46	-338.83	1,871.55	1,659.30	1,607.60	51.70	32.097	
4,900.00	4,632.15	5,288.68	4,944.35	27.92	34.85	103.17	-323.00	1,868.62	1,644.97	1,592.41	52.56	31.295	
5,000.00	4,722.43	5,344.67	4,998.81	28.74	35.13	103.81	-310.20	1,866.51	1,633.28	1,579.91	53.37	30.601	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,400.00	5,052.91	29.55	35.39	104.46	-298.74	1,864.94	1,624.44	1,570.31	54.14	30.007	
5,200.00	4,902.97	5,459.00	5,110.91	30.37	35.66	105.17	-287.98	1,863.69	1,618.55	1,563.68	54.87	29.498	
5,300.00	4,993.24	5,512.49	5,163.72	31.18	35.87	105.84	-279.56	1,862.78	1,615.56	1,560.03	55.53	29.095	
5,349.06	5,037.53	5,540.71	5,191.66	31.58	35.98	106.20	-275.62	1,862.31	1,615.14	1,559.30	55.84	28.924	
5,400.00	5,083.51	5,572.78	5,223.47	32.00	36.10	106.61	-271.54	1,861.80	1,615.40	1,559.24	56.17	28.761	
5,500.00	5,173.79	5,639.60	5,289.84	32.82	36.33	107.49	-263.91	1,860.86	1,617.72	1,560.92	56.80	28.481	
5,600.00	5,264.06	5,706.76	5,356.68	33.63	36.54	108.39	-257.43	1,859.97	1,622.37	1,564.97	57.40	28.263	
5,700.00	5,354.33	5,767.92	5,417.65	34.45	36.71	109.22	-252.71	1,859.05	1,629.44	1,571.50	57.93	28.125	
5,800.00	5,444.60	5,822.31	5,471.96	35.27	36.86	109.98	-249.85	1,858.25	1,639.42	1,581.04	58.38	28.080	
5,900.00	5,534.88	5,891.03	5,540.64	36.09	37.01	110.96	-247.74	1,857.23	1,652.11	1,593.22	58.89	28.052	
6,000.00	5,625.15	5,962.93	5,612.52	36.91	37.17	111.98	-246.38	1,856.11	1,666.77	1,607.36	59.41	28.056	
6,100.00	5,715.42	6,035.92	5,685.50	37.74	37.31	113.00	-245.79	1,855.38	1,683.44	1,623.51	59.93	28.092	
6,200.00	5,805.69	6,131.36	5,780.93	38.56	37.50	114.31	-245.25	1,854.49	1,701.30	1,640.68	60.62	28.067	
6,300.00	5,895.96	6,225.97	5,875.54	39.38	37.69	115.58	-244.37	1,853.79	1,719.81	1,658.49	61.32	28.048	
6,400.00	5,986.24	6,321.21	5,970.76	40.20	37.89	116.82	-243.10	1,853.30	1,738.89	1,676.85	62.03	28.031	
6,500.00	6,076.51	6,406.57	6,056.12	41.03	38.07	117.91	-241.98	1,852.98	1,758.84	1,696.16	62.68	28.061	
6,600.00	6,166.78	6,502.81	6,152.35	41.85	38.28	119.11	-240.64	1,852.80	1,779.56	1,716.14	63.42	28.060	
6,700.00	6,257.05	6,590.41	6,239.94	42.67	38.47	120.18	-239.40	1,852.51	1,800.97	1,736.88	64.09	28.100	
6,800.00	6,347.33	6,675.13	6,324.65	43.50	38.65	121.20	-238.40	1,852.24	1,823.33	1,758.58	64.74	28.162	
6,900.00	6,437.60	6,767.94	6,417.46	44.32	38.86	122.28	-237.36	1,852.22	1,846.51	1,781.04	65.47	28.205	
7,000.00	6,527.87	6,858.95	6,508.46	45.15	39.06	123.32	-236.26	1,852.14	1,870.25	1,804.07	66.18	28.261	
7,100.00	6,618.14	6,949.58	6,599.08	45.98	39.26	124.34	-235.15	1,852.10	1,894.64	1,827.76	66.89	28.326	
7,200.00	6,708.41	7,032.18	6,681.68	46.80	39.44	125.24	-234.26	1,852.12	1,919.80	1,852.27	67.53	28.429	
7,300.00	6,798.69	7,122.77	6,772.26	47.63	39.64	126.20	-233.58	1,852.48	1,945.89	1,877.65	68.24	28.516	
7,400.00	6,888.96	7,212.98	6,862.47	48.45	39.84	127.11	-232.67	1,853.34	1,972.37	1,903.43	68.95	28.607	
7,500.00	6,979.23	7,300.10	6,949.57	49.28	40.03	127.96	-231.91	1,854.72	1,999.56	1,929.93	69.63	28.716	
7,600.00	7,069.50	7,387.42	7,036.87	50.11	40.22	128.77	-231.20	1,856.81	2,027.36	1,957.04	70.32	28.832	
7,692.09	7,152.63	7,464.70	7,114.11	50.87	40.38	129.47	-230.74	1,858.98	2,053.56	1,982.64	70.92	28.956	
7,700.00	7,159.79	7,471.01	7,120.42	50.93	40.40	128.33	-230.72	1,859.16	2,055.79	1,984.82	70.97	28.967	
7,750.00	7,205.70	7,511.43	7,160.82	51.32	40.48	119.71	-230.63	1,860.28	2,067.59	1,996.32	71.27	29.009	
7,800.00	7,252.52	7,552.20	7,201.58	51.66	40.57	108.36	-230.67	1,861.35	2,075.37	2,003.80	71.57	28.999	
7,850.00	7,299.89	7,592.80	7,242.17	51.96	40.65	94.47	-230.85	1,862.39	2,079.08	2,007.23	71.85	28.938	
7,900.00	7,347.44	7,631.00	7,280.35	52.20	40.73	79.41	-231.14	1,863.33	2,078.70	2,006.62	72.08	28.837	
7,950.00	7,394.83	7,670.15	7,319.49	52.39	40.81	65.34	-231.62	1,864.27	2,074.29	2,001.98	72.31	28.687	
8,000.00	7,441.68	7,706.63	7,355.96	52.53	40.88	53.71	-232.26	1,865.09	2,065.90	1,993.41	72.49	28.499	
8,050.00	7,487.65	7,746.98	7,396.28	52.62	40.96	44.78	-233.17	1,865.98	2,053.56	1,980.87	72.69	28.250	
8,100.00	7,532.37	7,790.93	7,440.21	52.67	41.04	38.13	-234.21	1,867.04	2,037.19	1,964.27	72.91	27.940	
8,150.00	7,575.52	7,831.15	7,480.40	52.67	41.12	33.15	-235.19	1,868.10	2,016.88	1,943.79	73.09	27.593	
8,200.00	7,616.76	7,864.86	7,514.09	52.63	41.18	29.37	-236.13	1,868.87	1,992.89	1,919.68	73.21	27.223	
8,250.00	7,655.77	7,896.95	7,546.15	52.55	41.24	26.50	-237.16	1,869.43	1,965.40	1,892.11	73.30	26.814	
8,300.00	7,692.27	7,928.44	7,577.63	52.44	41.30	24.32	-238.30	1,869.81	1,934.59	1,861.21	73.38	26.362	
8,350.00	7,725.97	7,959.24	7,608.41	52.29	41.36	22.67	-239.49	1,870.02	1,900.61	1,827.15	73.47	25.870	
8,400.00	7,756.62	7,987.51	7,636.65	52.12	41.41	21.45	-240.65	1,870.07	1,863.69	1,790.16	73.53	25.345	
8,450.00	7,783.98	8,012.74	7,661.85	51.92	41.45	20.56	-241.72	1,870.00	1,824.08	1,750.50	73.58	24.790	
8,500.00	7,807.85	8,033.63	7,682.72	51.70	41.49	19.95	-242.67	1,869.84	1,782.07	1,708.47	73.60	24.213	
8,550.00	7,828.05	8,051.73	7,700.81	51.45	41.52	19.62	-243.53	1,869.62	1,737.94	1,664.34	73.61	23.610	
8,600.00	7,844.41	8,066.92	7,715.97	51.20	41.55	19.60	-244.28	1,869.37	1,692.01	1,618.40	73.61	22.986	
8,650.00	7,856.82	8,079.05	7,728.09	50.93	41.57	19.98	-244.91	1,869.14	1,644.57	1,570.96	73.61	22.342	
8,700.00	7,865.18	8,088.02	7,737.04	50.65	41.59	21.04	-245.38	1,868.95	1,595.97	1,522.37	73.60	21.683	
8,750.00	7,869.43	8,093.71	7,742.72	50.36	41.60	24.06	-245.69	1,868.81	1,546.55	1,472.96	73.60	21.014	
8,776.25	7,870.00	8,095.36	7,744.37	50.21	41.60	28.94	-245.77	1,868.77	1,520.40	1,446.80	73.60	20.659	
8,800.00	7,870.00	8,096.44	7,745.44	50.08	41.60	29.26	-245.83	1,868.75	1,496.70	1,423.11	73.59	20.338	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,101.02	7,750.02	49.53	41.61	30.74	-246.08	1,868.63	1,396.90	1,323.32	73.58	18.984	
9,000.00	7,870.00	8,103.00	7,751.99	49.01	41.61	31.42	-246.19	1,868.58	1,297.12	1,223.59	73.53	17.640	
9,100.00	7,870.00	8,109.29	7,758.27	48.52	41.62	33.75	-246.55	1,868.42	1,197.36	1,123.81	73.54	16.281	
9,200.00	7,870.00	8,113.54	7,762.51	48.06	41.63	35.48	-246.79	1,868.33	1,097.61	1,024.09	73.53	14.928	
9,300.00	7,870.00	8,118.01	7,766.97	47.63	41.64	37.47	-247.06	1,868.23	997.90	924.39	73.51	13.575	
9,400.00	7,870.00	8,122.71	7,771.66	47.22	41.65	39.75	-247.34	1,868.14	898.21	824.71	73.50	12.221	
9,500.00	7,870.00	8,127.66	7,776.60	46.83	41.65	42.41	-247.65	1,868.05	798.57	725.08	73.49	10.866	
9,600.00	7,870.00	8,132.88	7,781.81	46.48	41.66	45.52	-247.99	1,867.97	698.98	625.49	73.49	9.511	
9,700.00	7,870.00	8,138.40	7,787.32	46.14	41.67	49.19	-248.36	1,867.89	599.47	525.97	73.50	8.156	
9,800.00	7,870.00	8,144.24	7,793.14	45.83	41.68	53.54	-248.75	1,867.82	500.08	426.54	73.54	6.800	
9,900.00	7,870.00	8,150.43	7,799.32	45.54	41.69	58.73	-249.19	1,867.76	400.89	327.27	73.62	5.446	
10,000.00	7,870.00	8,157.00	7,805.87	45.27	41.70	64.92	-249.66	1,867.72	302.08	228.28	73.79	4.094	
10,100.00	7,870.00	8,163.99	7,812.84	45.03	41.71	72.23	-250.18	1,867.68	204.19	129.94	74.25	2.750	
10,200.00	7,870.00	8,171.44	7,820.27	44.82	41.72	80.72	-250.75	1,867.67	109.66	33.77	75.89	1.445	Level 3
10,299.25	7,870.00	8,179.33	7,828.14	44.66	41.74	90.17	-251.38	1,867.68	47.31	-34.49	81.80	0.578	Level 1, CC, ES, SF
10,300.00	7,870.00	8,179.39	7,828.20	44.66	41.74	90.24	-251.38	1,867.68	47.31	-34.47	81.78	0.579	Level 1
10,400.00	7,870.00	8,187.91	7,836.68	44.56	41.75	100.41	-252.08	1,867.72	110.99	37.21	73.78	1.504	
10,500.00	7,870.00	8,197.04	7,845.78	44.58	41.77	110.65	-252.86	1,867.79	205.55	132.79	72.76	2.825	
10,600.00	7,870.00	8,206.87	7,855.57	44.82	41.78	120.35	-253.73	1,867.90	303.35	230.75	72.59	4.179	
10,700.00	7,870.00	8,217.31	7,865.97	45.36	41.79	128.98	-254.68	1,868.07	402.00	329.47	72.53	5.543	
10,800.00	7,870.00	8,228.58	7,877.18	46.15	41.81	136.50	-255.75	1,868.30	500.99	428.51	72.48	6.912	
10,900.00	7,870.00	8,240.72	7,889.26	47.09	41.83	142.89	-256.94	1,868.62	600.12	527.69	72.43	8.285	
11,000.00	7,870.00	8,253.84	7,902.31	48.13	41.84	148.28	-258.28	1,869.04	699.32	626.95	72.38	9.662	
11,100.00	7,870.00	8,268.06	7,916.44	49.22	41.86	152.83	-259.80	1,869.58	798.55	726.23	72.32	11.042	
11,200.00	7,870.00	8,283.52	7,931.79	50.37	41.88	156.71	-261.51	1,870.27	897.76	825.51	72.25	12.426	
11,300.00	7,870.00	8,300.40	7,948.53	51.55	41.91	160.03	-263.47	1,871.14	996.95	924.77	72.18	13.813	
11,400.00	7,870.00	11,400.00	7,940.33	52.76	46.11	158.50	-262.50	1,870.70	1,096.31	1,016.07	80.23	13.664	
11,500.00	7,870.00	8,309.20	7,957.27	54.00	41.92	161.45	-264.40	1,871.56	1,195.54	1,123.06	72.48	16.494	
11,600.00	7,870.00	8,315.35	7,963.38	55.27	41.93	162.35	-265.04	1,871.86	1,294.91	1,222.34	72.58	17.842	
11,700.00	7,870.00	8,321.12	7,969.11	56.56	41.94	163.12	-265.63	1,872.13	1,394.33	1,321.67	72.67	19.188	
11,800.00	7,870.00	8,326.54	7,974.50	57.88	41.94	163.80	-266.16	1,872.38	1,493.79	1,421.04	72.75	20.533	
11,900.00	7,870.00	8,331.64	7,979.57	59.21	41.95	164.40	-266.65	1,872.62	1,593.29	1,520.46	72.83	21.877	
12,000.00	7,870.00	8,336.45	7,984.35	60.57	41.96	164.93	-267.09	1,872.83	1,692.81	1,619.91	72.91	23.219	
12,100.00	7,870.00	8,340.99	7,988.88	61.94	41.97	165.40	-267.50	1,873.03	1,792.37	1,719.39	72.98	24.561	
12,200.00	7,870.00	8,345.29	7,993.16	63.33	41.97	165.82	-267.88	1,873.22	1,891.95	1,818.90	73.05	25.901	
12,300.00	7,870.00	8,349.37	7,997.21	64.74	41.98	166.21	-268.23	1,873.39	1,991.55	1,918.44	73.11	27.240	
12,400.00	7,870.00	8,353.24	8,001.06	66.16	41.98	166.55	-268.55	1,873.55	2,091.18	2,018.01	73.17	28.578	
12,500.00	7,870.00	8,356.91	8,004.72	67.59	41.99	166.87	-268.85	1,873.70	2,190.83	2,117.59	73.24	29.915	
12,600.00	7,870.00	8,360.41	8,008.21	69.04	41.99	167.16	-269.12	1,873.85	2,290.49	2,217.20	73.29	31.250	
12,700.00	7,870.00	8,386.00	8,033.72	70.51	42.03	168.97	-270.94	1,874.82	2,390.42	2,317.22	73.20	32.657	
12,800.00	7,870.00	8,386.00	8,033.72	71.98	42.03	168.97	-270.94	1,874.82	2,490.05	2,416.77	73.28	33.978	
12,900.00	7,870.00	8,386.00	8,033.72	73.47	42.03	168.97	-270.94	1,874.82	2,589.71	2,516.35	73.36	35.300	
13,000.00	7,870.00	8,386.00	8,033.72	74.96	42.03	168.97	-270.94	1,874.82	2,689.39	2,615.95	73.44	36.622	
13,100.00	7,870.00	8,386.00	8,033.72	76.47	42.03	168.97	-270.94	1,874.82	2,789.10	2,715.59	73.51	37.943	
13,200.00	7,870.00	8,386.00	8,033.72	77.99	42.03	168.97	-270.94	1,874.82	2,888.83	2,815.25	73.58	39.263	
13,300.00	7,870.00	8,386.00	8,033.72	79.51	42.03	168.97	-270.94	1,874.82	2,988.57	2,914.93	73.64	40.583	
13,400.00	7,870.00	8,386.00	8,033.72	81.05	42.03	168.97	-270.94	1,874.82	3,088.33	3,014.63	73.70	41.902	
13,500.00	7,870.00	8,386.00	8,033.72	82.59	42.03	168.97	-270.94	1,874.82	3,188.11	3,114.35	73.76	43.221	
13,600.00	7,870.00	8,386.00	8,033.72	84.14	42.03	168.97	-270.94	1,874.82	3,287.90	3,214.08	73.82	44.538	
13,700.00	7,870.00	8,386.00	8,033.72	85.70	42.03	168.97	-270.94	1,874.82	3,387.70	3,313.82	73.88	45.855	
13,800.00	7,870.00	8,386.00	8,033.72	87.26	42.03	168.97	-270.94	1,874.82	3,487.52	3,413.58	73.93	47.171	
13,900.00	7,870.00	8,386.00	8,033.72	88.83	42.03	168.97	-270.94	1,874.82	3,587.34	3,513.35	73.99	48.486	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	8,403.39	8,051.06	90.41	42.06	169.96	-272.02	1,875.44	3,687.10	3,613.13	73.97	49.843	
14,100.00	7,870.00	8,406.75	8,054.41	92.00	42.07	170.14	-272.22	1,875.56	3,786.92	3,712.90	74.02	51.163	
14,200.00	7,870.00	8,410.04	8,057.69	93.59	42.07	170.30	-272.41	1,875.67	3,886.73	3,812.67	74.06	52.482	
14,300.00	7,870.00	8,413.25	8,060.89	95.18	42.08	170.46	-272.60	1,875.78	3,986.56	3,912.45	74.10	53.799	
14,400.00	7,870.00	8,416.39	8,064.03	96.79	42.09	170.61	-272.78	1,875.89	4,086.38	4,012.24	74.14	55.114	
14,500.00	7,870.00	8,419.46	8,067.09	98.39	42.09	170.75	-272.96	1,876.00	4,186.21	4,112.03	74.19	56.428	
14,600.00	7,870.00	8,422.46	8,070.09	100.00	42.10	170.89	-273.13	1,876.10	4,286.05	4,211.82	74.23	57.741	
14,700.00	7,870.00	8,425.40	8,073.02	101.62	42.10	171.02	-273.29	1,876.20	4,385.88	4,311.61	74.27	59.052	
14,800.00	7,870.00	8,428.27	8,075.89	103.24	42.11	171.15	-273.45	1,876.30	4,485.73	4,411.41	74.32	60.361	
14,900.00	7,870.00	8,431.08	8,078.69	104.87	42.11	171.26	-273.60	1,876.39	4,585.57	4,511.21	74.36	61.668	
15,000.00	7,870.00	8,433.84	8,081.44	106.50	42.12	171.38	-273.75	1,876.48	4,685.42	4,611.02	74.40	62.974	
15,100.00	7,870.00	8,436.54	8,084.13	108.13	42.12	171.49	-273.90	1,876.58	4,785.27	4,710.83	74.45	64.278	
15,200.00	7,870.00	8,439.18	8,086.77	109.77	42.13	171.59	-274.04	1,876.66	4,885.13	4,810.64	74.49	65.580	
15,300.00	7,870.00	8,441.77	8,089.36	111.41	42.13	171.69	-274.18	1,876.75	4,984.99	4,910.45	74.54	66.881	
15,400.00	7,870.00	8,444.30	8,091.89	113.05	42.14	171.79	-274.31	1,876.83	5,084.85	5,010.27	74.58	68.179	
15,500.00	7,870.00	8,446.79	8,094.37	114.70	42.14	171.88	-274.43	1,876.92	5,184.71	5,110.08	74.63	69.476	
15,600.00	7,870.00	8,449.23	8,096.80	116.35	42.14	171.97	-274.56	1,877.00	5,284.58	5,209.91	74.67	70.771	
15,700.00	7,870.00	8,451.62	8,099.19	118.00	42.15	172.06	-274.68	1,877.07	5,384.45	5,309.73	74.72	72.064	
15,800.00	7,870.00	8,453.96	8,101.52	119.66	42.15	172.14	-274.80	1,877.15	5,484.32	5,409.55	74.76	73.356	
15,900.00	7,870.00	8,456.26	8,103.82	121.32	42.16	172.22	-274.91	1,877.23	5,584.19	5,509.38	74.81	74.645	
16,000.00	7,870.00	8,458.51	8,106.07	122.98	42.16	172.30	-275.02	1,877.30	5,684.07	5,609.21	74.86	75.932	
16,100.00	7,870.00	8,481.00	8,128.52	124.65	42.20	173.00	-276.07	1,878.01	5,784.03	5,709.16	74.87	77.256	
16,200.00	7,870.00	8,481.00	8,128.52	126.32	42.20	173.00	-276.07	1,878.01	5,883.89	5,808.97	74.92	78.535	
16,300.00	7,870.00	8,481.00	8,128.52	127.99	42.20	173.00	-276.07	1,878.01	5,983.76	5,908.79	74.97	79.812	
16,400.00	7,870.00	8,481.00	8,128.52	129.66	42.20	173.00	-276.07	1,878.01	6,083.64	6,008.61	75.03	81.087	
16,500.00	7,870.00	8,481.00	8,128.52	131.33	42.20	173.00	-276.07	1,878.01	6,183.51	6,108.44	75.08	82.361	
16,600.00	7,870.00	8,481.00	8,128.52	133.01	42.20	173.00	-276.07	1,878.01	6,283.40	6,208.26	75.13	83.633	
16,700.00	7,870.00	8,481.00	8,128.52	134.69	42.20	173.00	-276.07	1,878.01	6,383.28	6,308.10	75.18	84.902	
16,800.00	7,870.00	8,481.00	8,128.52	136.37	42.20	173.00	-276.07	1,878.01	6,483.17	6,407.93	75.24	86.170	
16,900.00	7,870.00	8,481.00	8,128.52	138.06	42.20	173.00	-276.07	1,878.01	6,583.06	6,507.77	75.29	87.436	
17,000.00	7,870.00	8,481.00	8,128.52	139.74	42.20	173.00	-276.07	1,878.01	6,682.96	6,607.62	75.34	88.700	
17,100.00	7,870.00	8,481.00	8,128.52	141.43	42.20	173.00	-276.07	1,878.01	6,782.86	6,707.46	75.40	89.962	
17,200.00	7,870.00	8,481.00	8,128.52	143.12	42.20	173.00	-276.07	1,878.01	6,882.76	6,807.31	75.45	91.223	
17,300.00	7,870.00	8,481.00	8,128.52	144.81	42.20	173.00	-276.07	1,878.01	6,982.66	6,907.16	75.50	92.481	
17,400.00	7,870.00	8,481.00	8,128.52	146.50	42.20	173.00	-276.07	1,878.01	7,082.57	7,007.01	75.56	93.737	
17,500.00	7,870.00	8,481.00	8,128.52	148.19	42.20	173.00	-276.07	1,878.01	7,182.48	7,106.87	75.61	94.990	
17,600.00	7,870.00	8,481.00	8,128.52	149.89	42.20	173.00	-276.07	1,878.01	7,282.39	7,206.73	75.67	96.242	
17,700.00	7,870.00	8,481.00	8,128.52	151.59	42.20	173.00	-276.07	1,878.01	7,382.31	7,306.59	75.72	97.492	
17,800.00	7,870.00	8,481.00	8,128.52	153.29	42.20	173.00	-276.07	1,878.01	7,482.22	7,406.45	75.78	98.740	
17,900.00	7,870.00	8,481.00	8,128.52	154.99	42.20	173.00	-276.07	1,878.01	7,582.14	7,506.31	75.83	99.985	
18,000.00	7,870.00	8,481.00	8,128.52	156.69	42.20	173.00	-276.07	1,878.01	7,682.07	7,606.18	75.89	101.228	
18,100.00	7,870.00	8,481.00	8,128.52	158.39	42.20	173.00	-276.07	1,878.01	7,781.99	7,706.04	75.94	102.469	
18,200.00	7,870.00	8,502.73	8,150.22	160.09	42.24	173.59	-276.99	1,878.68	7,881.85	7,805.86	75.98	103.731	
18,300.00	7,870.00	8,504.57	8,152.06	161.80	42.25	173.63	-277.06	1,878.73	7,981.76	7,905.72	76.04	104.968	
18,400.00	7,870.00	8,506.38	8,153.87	163.51	42.25	173.68	-277.14	1,878.78	8,081.68	8,005.59	76.10	106.204	
18,455.45	7,870.00	8,507.37	8,154.86	164.45	42.25	173.70	-277.18	1,878.81	8,137.09	8,060.96	76.13	106.888	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.30	771.66	2,155.67	2,289.99				
100.00	100.00	61.72	61.72	0.13	0.10	70.31	771.44	2,155.71	2,289.59	2,289.36	0.23	9,797.858	
200.00	200.00	166.43	166.42	0.49	0.36	70.34	770.28	2,155.88	2,289.37	2,288.52	0.85	2,699.166	
300.00	300.00	270.18	270.17	0.85	0.73	70.36	769.51	2,155.70	2,288.95	2,287.37	1.58	1,450.582	
400.00	400.00	360.03	360.02	1.21	1.05	70.37	768.95	2,155.54	2,288.59	2,286.33	2.26	1,014.276	
405.98	405.98	365.00	364.98	1.23	1.06	70.37	768.92	2,155.55	2,288.59	2,286.29	2.30	996.996	
500.00	500.00	451.15	451.13	1.57	1.37	70.38	768.42	2,155.96	2,288.82	2,285.88	2.94	779.329	
600.00	600.00	539.77	539.75	1.93	1.68	70.39	768.19	2,156.52	2,289.33	2,285.73	3.61	634.763	
700.00	700.00	632.14	632.12	2.29	2.00	70.41	767.93	2,157.70	2,290.44	2,286.15	4.29	533.919	
800.00	800.00	729.30	729.27	2.64	2.35	70.43	767.71	2,159.02	2,291.64	2,286.65	4.99	459.223	
900.00	900.00	832.08	832.03	3.00	2.71	70.43	767.88	2,160.38	2,292.95	2,287.23	5.71	401.512	
1,000.00	1,000.00	947.65	947.60	3.36	3.11	70.43	768.30	2,161.30	2,293.82	2,287.35	6.47	354.482	
1,100.00	1,100.00	1,051.78	1,051.72	3.72	3.46	70.40	769.56	2,161.28	2,294.22	2,287.03	7.18	319.409	
1,200.00	1,200.00	1,135.93	1,135.87	4.08	3.75	70.37	770.79	2,161.46	2,294.90	2,287.07	7.83	293.084	
1,300.00	1,300.00	1,236.77	1,236.70	4.44	4.10	70.34	772.15	2,161.78	2,295.65	2,287.11	8.54	268.866	
1,400.00	1,399.98	1,296.28	1,296.18	4.79	4.31	27.38	773.65	2,162.41	2,295.95	2,286.85	9.10	252.315	
1,500.00	1,499.84	1,355.68	1,355.51	5.15	4.52	27.38	776.26	2,163.76	2,294.92	2,285.26	9.66	237.642	
1,600.00	1,599.45	1,409.00	1,408.69	5.51	4.71	27.39	779.53	2,165.59	2,292.58	2,282.38	10.19	224.971	
1,700.00	1,698.70	1,477.92	1,477.33	5.87	4.95	27.42	784.81	2,168.81	2,288.79	2,278.01	10.78	212.256	
1,800.00	1,797.47	1,537.12	1,536.18	6.24	5.17	27.48	790.10	2,172.40	2,283.60	2,272.26	11.34	201.371	
1,900.00	1,895.62	1,598.00	1,596.57	6.63	5.39	27.57	796.29	2,177.07	2,277.17	2,265.27	11.91	191.269	
2,000.00	1,993.06	1,656.32	1,654.29	7.04	5.61	27.69	802.73	2,182.44	2,269.42	2,256.95	12.47	182.046	
2,100.00	2,089.64	1,720.60	1,717.76	7.48	5.86	27.85	810.18	2,189.29	2,260.20	2,247.15	13.06	173.094	
2,200.00	2,185.27	1,787.00	1,783.15	7.94	6.11	28.05	818.67	2,197.12	2,249.40	2,235.73	13.67	164.584	
2,300.00	2,279.82	1,845.08	1,840.16	8.45	6.35	28.27	826.62	2,204.77	2,237.18	2,222.93	14.25	156.957	
2,400.00	2,373.17	1,908.94	1,902.66	8.99	6.61	28.54	835.72	2,214.28	2,223.70	2,208.82	14.88	149.460	
2,500.00	2,465.21	1,975.00	1,967.15	9.58	6.89	28.86	845.42	2,224.81	2,208.48	2,192.95	15.53	142.212	
2,574.08	2,532.50	2,017.85	2,008.88	10.04	7.08	29.12	851.66	2,232.28	2,196.33	2,180.33	16.00	137.299	
2,600.00	2,555.89	2,031.05	2,021.70	10.21	7.13	29.17	853.51	2,234.76	2,192.07	2,175.92	16.15	135.700	
2,700.00	2,646.16	2,086.42	2,075.39	10.88	7.38	29.39	860.98	2,246.06	2,177.00	2,160.21	16.79	129.693	
2,800.00	2,736.44	2,155.97	2,142.65	11.57	7.70	29.70	869.56	2,261.57	2,163.54	2,146.04	17.50	123.637	
2,900.00	2,826.71	2,233.66	2,217.62	12.27	8.06	30.09	877.82	2,280.19	2,151.33	2,133.06	18.27	117.780	
3,000.00	2,916.98	2,304.97	2,286.28	13.00	8.41	30.49	884.21	2,298.32	2,140.26	2,121.24	19.01	112.559	
3,100.00	3,007.25	2,374.41	2,352.89	13.73	8.75	30.88	890.66	2,316.86	2,130.69	2,110.93	19.77	107.794	
3,200.00	3,097.52	2,449.00	2,424.19	14.48	9.13	31.31	897.45	2,337.69	2,122.49	2,101.94	20.56	103.244	
3,300.00	3,187.80	2,501.20	2,473.83	15.23	9.41	31.61	902.46	2,353.03	2,116.07	2,094.83	21.24	99.627	
3,400.00	3,278.07	2,563.69	2,532.82	15.99	9.76	31.96	909.34	2,372.47	2,111.85	2,089.86	21.98	96.064	
3,500.00	3,368.34	2,667.34	2,630.48	16.76	10.36	32.55	920.35	2,405.40	2,108.50	2,085.52	22.98	91.754	
3,600.00	3,458.61	2,787.50	2,744.08	17.54	11.06	33.24	932.85	2,442.50	2,104.38	2,080.29	24.09	87.361	
3,700.00	3,548.89	2,886.50	2,837.78	18.32	11.65	33.78	944.11	2,472.40	2,100.02	2,074.93	25.09	83.705	
3,800.00	3,639.16	2,982.57	2,928.68	19.10	12.23	34.31	955.20	2,501.46	2,095.94	2,069.85	26.09	80.347	
3,900.00	3,729.43	3,067.40	3,008.88	19.89	12.75	34.77	964.95	2,527.32	2,092.29	2,065.26	27.03	77.404	
4,000.00	3,819.70	3,158.70	3,094.95	20.69	13.32	35.26	975.97	2,555.73	2,089.56	2,061.53	28.03	74.557	
4,100.00	3,909.98	3,269.10	3,199.13	21.48	14.02	35.86	989.16	2,589.79	2,086.74	2,057.58	29.15	71.581	
4,200.00	4,000.25	3,384.57	3,308.45	22.28	14.74	36.53	1,001.54	2,624.86	2,083.40	2,053.08	30.32	68.708	
4,300.00	4,090.52	3,472.32	3,391.58	23.08	15.29	37.02	1,011.28	2,651.24	2,080.02	2,048.68	31.34	66.375	
4,400.00	4,180.79	3,568.53	3,482.54	23.88	15.91	37.55	1,022.68	2,680.40	2,077.21	2,044.79	32.42	64.081	
4,500.00	4,271.06	3,693.02	3,600.54	24.69	16.70	38.23	1,037.28	2,717.31	2,073.87	2,040.19	33.68	61.575	
4,600.00	4,361.34	3,782.31	3,685.30	25.49	17.26	38.74	1,047.08	2,743.61	2,070.45	2,035.71	34.74	59.594	
4,700.00	4,451.61	3,890.56	3,788.09	26.30	17.95	39.35	1,059.39	2,775.22	2,067.01	2,031.08	35.93	57.524	
4,800.00	4,541.88	3,979.08	3,872.18	27.11	18.51	39.86	1,069.02	2,801.15	2,063.83	2,026.81	37.02	55.756	
4,900.00	4,632.15	4,066.93	3,955.45	27.92	19.07	40.37	1,078.74	2,827.42	2,061.47	2,023.37	38.10	54.101	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,203.03	4,084.63	28.74	19.94	41.10	1,095.62	2,866.77	2,058.43	2,018.93	39.51	52.104	
5,100.00	4,812.70	4,297.38	4,174.52	29.55	20.54	41.62	1,106.80	2,893.16	2,054.60	2,013.94	40.66	50.533	
5,200.00	4,902.97	4,386.21	4,259.09	30.37	21.10	42.15	1,116.07	2,918.70	2,051.62	2,009.82	41.79	49.090	
5,300.00	4,993.24	4,496.44	4,364.00	31.18	21.79	42.79	1,128.32	2,950.24	2,048.79	2,005.72	43.07	47.566	
5,400.00	5,083.51	4,581.51	4,445.00	32.00	22.34	43.27	1,138.24	2,974.27	2,045.84	2,001.64	44.20	46.281	
5,500.00	5,173.79	4,692.66	4,550.40	32.82	23.05	43.84	1,153.12	3,006.24	2,043.73	1,998.22	45.51	44.908	
5,600.00	5,264.06	4,824.04	4,675.89	33.63	23.87	44.59	1,168.39	3,042.04	2,040.07	1,993.12	46.95	43.448	
5,700.00	5,354.33	4,949.07	4,795.95	34.45	24.61	45.39	1,179.68	3,075.02	2,035.82	1,987.45	48.37	42.088	
5,800.00	5,444.60	5,091.28	4,933.51	35.27	25.42	46.34	1,191.35	3,109.15	2,029.19	1,979.31	49.89	40.677	
5,900.00	5,534.88	5,362.86	5,199.88	36.09	26.72	48.37	1,207.82	3,158.74	2,016.09	1,964.16	51.93	38.825	
6,000.00	5,625.15	5,716.19	5,551.74	36.91	27.93	51.52	1,216.41	3,186.08	1,993.46	1,939.80	53.67	37.146	
6,100.00	5,715.42	5,827.79	5,663.34	37.74	28.22	52.64	1,217.17	3,187.08	1,966.22	1,911.28	54.94	35.791	
6,200.00	5,805.69	5,911.69	5,747.23	38.56	28.44	53.49	1,217.89	3,187.68	1,939.38	1,883.15	56.22	34.494	
6,300.00	5,895.96	5,998.67	5,834.20	39.38	28.68	54.40	1,218.68	3,188.66	1,913.45	1,855.91	57.53	33.259	
6,400.00	5,986.24	6,094.00	5,929.52	40.20	28.93	55.41	1,219.83	3,189.73	1,888.05	1,829.20	58.86	32.078	
6,500.00	6,076.51	6,191.90	6,027.41	41.03	29.20	56.48	1,220.95	3,190.47	1,862.92	1,802.72	60.20	30.945	
6,600.00	6,166.78	6,287.99	6,123.49	41.85	29.45	57.55	1,221.99	3,190.86	1,838.08	1,776.52	61.56	29.858	
6,700.00	6,257.05	6,378.44	6,213.94	42.67	29.69	58.60	1,222.62	3,191.02	1,813.73	1,750.79	62.94	28.815	
6,800.00	6,347.33	6,466.87	6,302.37	43.50	29.93	59.67	1,222.76	3,191.20	1,790.16	1,725.81	64.35	27.820	
6,900.00	6,437.60	6,548.98	6,384.48	44.32	30.15	60.66	1,223.16	3,191.57	1,767.48	1,701.71	65.77	26.875	
7,000.00	6,527.87	6,634.17	6,469.66	45.15	30.38	61.72	1,223.44	3,192.53	1,746.15	1,678.95	67.20	25.983	
7,100.00	6,618.14	6,733.20	6,568.69	45.98	30.66	62.98	1,223.75	3,193.20	1,725.18	1,656.53	68.66	25.127	
7,200.00	6,708.41	6,822.06	6,657.54	46.80	30.90	64.12	1,224.42	3,193.92	1,705.05	1,634.92	70.12	24.315	
7,300.00	6,798.69	6,917.75	6,753.22	47.63	31.17	65.36	1,225.72	3,194.70	1,685.57	1,613.97	71.60	23.543	
7,400.00	6,888.96	7,015.26	6,850.72	48.45	31.45	66.65	1,226.89	3,195.14	1,666.63	1,593.55	73.08	22.806	
7,500.00	6,979.23	7,113.83	6,949.29	49.28	31.72	68.00	1,227.84	3,194.97	1,648.08	1,573.51	74.57	22.102	
7,600.00	7,069.50	7,206.87	7,042.32	50.11	31.97	69.29	1,229.29	3,194.70	1,630.13	1,554.06	76.06	21.432	
7,692.09	7,152.63	7,287.99	7,123.43	50.87	32.20	70.42	1,230.55	3,194.46	1,614.40	1,536.96	77.44	20.847	
7,700.00	7,159.79	7,294.70	7,130.13	50.93	32.22	69.18	1,230.65	3,194.44	1,613.07	1,535.51	77.56	20.798	
7,750.00	7,205.70	7,337.64	7,173.07	51.32	32.34	59.81	1,231.23	3,194.39	1,603.74	1,525.49	78.25	20.495	
7,800.00	7,252.52	7,381.79	7,217.21	51.66	32.46	47.49	1,231.75	3,194.40	1,592.79	1,513.94	78.85	20.201	
7,850.00	7,299.89	7,426.66	7,262.09	51.96	32.59	32.40	1,232.21	3,194.45	1,580.20	1,500.85	79.35	19.915	
7,900.00	7,347.44	7,471.50	7,306.93	52.20	32.71	15.88	1,232.57	3,194.54	1,565.99	1,486.25	79.74	19.639	
7,950.00	7,394.83	7,516.00	7,351.42	52.39	32.83	0.07	1,232.70	3,194.63	1,550.24	1,470.22	80.03	19.371	
8,000.00	7,441.68	7,561.54	7,396.96	52.53	32.96	-13.59	1,232.59	3,194.70	1,533.05	1,452.84	80.21	19.113	
8,050.00	7,487.65	7,608.57	7,443.99	52.62	33.08	-24.92	1,232.37	3,194.71	1,514.48	1,434.20	80.28	18.864	
8,100.00	7,532.37	7,653.15	7,488.57	52.67	33.20	-34.31	1,232.07	3,194.66	1,494.70	1,414.45	80.25	18.625	
8,150.00	7,575.52	7,694.32	7,529.74	52.67	33.30	-42.28	1,231.73	3,194.64	1,474.01	1,393.90	80.11	18.401	
8,200.00	7,616.76	7,733.80	7,569.22	52.63	33.41	-49.26	1,231.35	3,194.65	1,452.69	1,372.84	79.85	18.193	
8,250.00	7,655.77	7,769.66	7,605.08	52.55	33.50	-55.49	1,230.98	3,194.73	1,431.07	1,351.59	79.48	18.005	
8,300.00	7,692.27	7,803.36	7,638.77	52.44	33.59	-61.15	1,230.65	3,194.89	1,409.50	1,330.51	79.00	17.843	
8,350.00	7,725.97	7,836.01	7,671.42	52.29	33.68	-66.37	1,230.34	3,195.12	1,388.34	1,309.94	78.40	17.709	
8,400.00	7,756.62	7,868.58	7,703.99	52.12	33.78	-71.21	1,230.11	3,195.36	1,367.89	1,290.21	77.68	17.609	
8,450.00	7,783.98	7,897.47	7,732.88	51.92	33.86	-75.56	1,230.00	3,195.57	1,348.55	1,271.70	76.85	17.548	
8,500.00	7,807.85	7,922.46	7,757.87	51.70	33.93	-79.38	1,229.97	3,195.74	1,330.76	1,254.85	75.92	17.529 SF	
8,550.00	7,828.05	7,939.99	7,775.40	51.45	33.98	-82.48	1,229.96	3,195.89	1,314.96	1,240.06	74.90	17.556	
8,600.00	7,844.41	7,954.70	7,790.11	51.20	34.02	-85.04	1,229.96	3,196.03	1,301.51	1,227.70	73.81	17.633	
8,650.00	7,856.82	7,965.86	7,801.26	50.93	34.05	-87.01	1,229.96	3,196.15	1,290.73	1,218.06	72.67	17.762	
8,700.00	7,865.18	7,973.37	7,808.78	50.65	34.08	-88.37	1,229.96	3,196.24	1,282.87	1,211.38	71.49	17.944	
8,750.00	7,869.43	7,977.19	7,812.59	50.36	34.09	-89.13	1,229.96	3,196.28	1,278.12	1,207.80	70.31	18.178	
8,776.25	7,870.00	7,977.70	7,813.11	50.21	34.09	-89.29	1,229.96	3,196.29	1,276.90	1,207.20	69.70	18.320 ES	
8,800.00	7,870.00	7,977.70	7,813.10	50.08	34.09	-89.29	1,229.96	3,196.29	1,276.43	1,207.28	69.16	18.457	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,813.41	7,870.00	7,977.70	7,813.10	50.00	34.09	-89.29	1,229.96	3,196.29	1,276.36	1,207.50	68.86	18.535	CC
8,900.00	7,870.00	7,977.69	7,813.09	49.53	34.09	-89.29	1,229.96	3,196.29	1,279.30	1,212.25	67.05	19.080	
9,000.00	7,870.00	7,977.68	7,813.08	49.01	34.09	-89.29	1,229.96	3,196.29	1,289.93	1,224.62	65.31	19.751	
9,100.00	7,870.00	7,977.67	7,813.07	48.52	34.09	-89.28	1,229.96	3,196.29	1,308.14	1,244.13	64.01	20.436	
9,200.00	7,870.00	7,977.65	7,813.06	48.06	34.09	-89.28	1,229.96	3,196.29	1,333.62	1,270.42	63.20	21.101	
9,300.00	7,870.00	7,977.64	7,813.05	47.63	34.09	-89.28	1,229.96	3,196.29	1,365.97	1,303.10	62.87	21.726	
9,400.00	7,870.00	7,977.63	7,813.04	47.22	34.09	-89.28	1,229.96	3,196.29	1,404.70	1,341.72	62.98	22.303	
9,500.00	7,870.00	7,977.62	7,813.03	46.83	34.09	-89.28	1,229.96	3,196.29	1,449.31	1,385.86	63.46	22.839	
9,600.00	7,870.00	7,977.61	7,813.02	46.48	34.09	-89.28	1,229.96	3,196.29	1,499.27	1,435.06	64.21	23.349	
9,700.00	7,870.00	7,977.60	7,813.01	46.14	34.09	-89.28	1,229.96	3,196.29	1,554.07	1,488.91	65.16	23.849	
9,800.00	7,870.00	7,977.59	7,812.99	45.83	34.09	-89.28	1,229.96	3,196.29	1,613.21	1,546.97	66.24	24.354	
9,900.00	7,870.00	7,977.58	7,812.98	45.54	34.09	-89.28	1,229.96	3,196.29	1,676.24	1,608.85	67.39	24.875	
10,000.00	7,870.00	7,977.57	7,812.97	45.27	34.09	-89.28	1,229.96	3,196.29	1,742.73	1,674.17	68.55	25.421	
10,100.00	7,870.00	7,977.56	7,812.96	45.03	34.09	-89.28	1,229.96	3,196.29	1,812.30	1,742.58	69.71	25.996	
10,200.00	7,870.00	7,977.55	7,812.95	44.82	34.09	-89.28	1,229.96	3,196.29	1,884.60	1,813.76	70.84	26.602	
10,300.00	7,870.00	7,977.54	7,812.94	44.66	34.09	-89.28	1,229.96	3,196.29	1,959.35	1,887.42	71.93	27.240	
10,400.00	7,870.00	7,977.53	7,812.93	44.56	34.09	-89.28	1,229.96	3,196.29	2,036.26	1,963.30	72.96	27.908	
10,500.00	7,870.00	7,977.52	7,812.92	44.58	34.09	-89.28	1,229.96	3,196.29	2,115.11	2,041.17	73.94	28.606	
10,600.00	7,870.00	7,977.51	7,812.91	44.82	34.09	-89.28	1,229.96	3,196.29	2,195.68	2,120.82	74.86	29.330	
10,700.00	7,870.00	7,977.49	7,812.90	45.36	34.09	-89.28	1,229.96	3,196.29	2,277.79	2,202.07	75.72	30.080	
10,800.00	7,870.00	7,977.48	7,812.89	46.15	34.09	-89.28	1,229.96	3,196.29	2,361.28	2,284.75	76.53	30.854	
10,900.00	7,870.00	7,977.47	7,812.88	47.09	34.09	-89.28	1,229.96	3,196.29	2,446.01	2,368.72	77.29	31.648	
11,000.00	7,870.00	7,977.46	7,812.87	48.13	34.09	-89.28	1,229.96	3,196.29	2,531.85	2,453.86	77.99	32.463	
11,100.00	7,870.00	7,977.45	7,812.86	49.22	34.09	-89.28	1,229.96	3,196.29	2,618.70	2,540.05	78.65	33.294	
11,200.00	7,870.00	7,977.44	7,812.85	50.37	34.09	-89.27	1,229.96	3,196.29	2,706.46	2,627.19	79.27	34.142	
11,300.00	7,870.00	7,977.43	7,812.84	51.55	34.09	-89.27	1,229.96	3,196.29	2,795.04	2,715.19	79.85	35.005	
11,400.00	7,870.00	7,977.42	7,812.83	52.76	34.09	-89.27	1,229.96	3,196.29	2,884.36	2,803.97	80.39	35.881	
11,500.00	7,870.00	7,977.41	7,812.82	54.00	34.09	-89.27	1,229.96	3,196.29	2,974.37	2,893.47	80.89	36.769	
11,600.00	7,870.00	7,977.40	7,812.80	55.27	34.09	-89.27	1,229.96	3,196.29	3,064.99	2,983.62	81.37	37.668	
11,700.00	7,870.00	7,977.39	7,812.79	56.56	34.09	-89.27	1,229.96	3,196.29	3,156.18	3,074.37	81.82	38.577	
11,800.00	7,870.00	7,977.38	7,812.78	57.88	34.09	-89.27	1,229.96	3,196.29	3,247.89	3,165.66	82.24	39.495	
11,900.00	7,870.00	7,977.37	7,812.77	59.21	34.09	-89.27	1,229.96	3,196.29	3,340.08	3,257.45	82.63	40.422	
12,000.00	7,870.00	7,977.36	7,812.76	60.57	34.09	-89.27	1,229.96	3,196.29	3,432.70	3,349.70	83.00	41.356	
12,100.00	7,870.00	7,977.35	7,812.75	61.94	34.09	-89.27	1,229.96	3,196.29	3,525.73	3,442.37	83.36	42.297	
12,200.00	7,870.00	7,977.34	7,812.74	63.33	34.09	-89.27	1,229.96	3,196.29	3,619.13	3,535.44	83.69	43.245	
12,300.00	7,870.00	7,977.33	7,812.73	64.74	34.09	-89.27	1,229.96	3,196.29	3,712.87	3,628.87	84.00	44.199	
12,400.00	7,870.00	7,977.32	7,812.72	66.16	34.09	-89.27	1,229.96	3,196.29	3,806.93	3,722.63	84.30	45.158	
12,500.00	7,870.00	7,977.31	7,812.71	67.59	34.09	-89.27	1,229.96	3,196.29	3,901.29	3,816.70	84.59	46.122	
12,600.00	7,870.00	7,977.30	7,812.70	69.04	34.09	-89.27	1,229.96	3,196.29	3,995.92	3,911.06	84.86	47.091	
12,700.00	7,870.00	7,977.29	7,812.69	70.51	34.09	-89.27	1,229.96	3,196.29	4,090.80	4,005.69	85.11	48.064	
12,800.00	7,870.00	7,977.28	7,812.68	71.98	34.09	-89.27	1,229.96	3,196.29	4,185.93	4,100.57	85.36	49.040	
12,900.00	7,870.00	7,977.27	7,812.67	73.47	34.09	-89.27	1,229.96	3,196.29	4,281.27	4,195.68	85.59	50.021	
13,000.00	7,870.00	7,977.26	7,812.66	74.96	34.09	-89.27	1,229.96	3,196.29	4,376.83	4,291.01	85.81	51.004	
13,100.00	7,870.00	7,977.25	7,812.65	76.47	34.09	-89.27	1,229.96	3,196.29	4,472.58	4,386.55	86.03	51.990	
13,200.00	7,870.00	7,977.24	7,812.64	77.99	34.09	-89.27	1,229.96	3,196.28	4,568.51	4,482.28	86.23	52.980	
13,300.00	7,870.00	7,977.23	7,812.63	79.51	34.09	-89.27	1,229.96	3,196.28	4,664.61	4,578.18	86.43	53.971	
13,400.00	7,870.00	7,977.22	7,812.62	81.05	34.09	-89.26	1,229.96	3,196.28	4,760.87	4,674.26	86.62	54.966	
13,500.00	7,870.00	7,977.21	7,812.61	82.59	34.09	-89.26	1,229.96	3,196.28	4,857.28	4,770.49	86.80	55.962	
13,600.00	7,870.00	7,977.20	7,812.60	84.14	34.09	-89.26	1,229.96	3,196.28	4,953.84	4,866.87	86.97	56.960	
13,700.00	7,870.00	7,977.19	7,812.59	85.70	34.09	-89.26	1,229.96	3,196.28	5,050.53	4,963.39	87.14	57.960	
13,800.00	7,870.00	7,977.18	7,812.58	87.26	34.09	-89.26	1,229.96	3,196.28	5,147.35	5,060.05	87.30	58.961	
13,900.00	7,870.00	7,977.16	7,812.57	88.83	34.09	-89.26	1,229.96	3,196.28	5,244.28	5,156.82	87.46	59.965	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 122-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,977.15	7,812.56	90.41	34.09	-89.26	1,229.96	3,196.28	5,341.33	5,253.72	87.61	60.969	
14,100.00	7,870.00	7,977.14	7,812.55	92.00	34.09	-89.26	1,229.96	3,196.28	5,438.49	5,350.73	87.75	61.975	
14,200.00	7,870.00	7,977.13	7,812.54	93.59	34.09	-89.26	1,229.96	3,196.28	5,535.74	5,447.85	87.89	62.981	
14,300.00	7,870.00	7,977.12	7,812.53	95.18	34.09	-89.26	1,229.96	3,196.28	5,633.09	5,545.06	88.03	63.989	
14,400.00	7,870.00	7,977.11	7,812.52	96.79	34.09	-89.26	1,229.96	3,196.28	5,730.54	5,642.37	88.16	64.998	
14,500.00	7,870.00	7,977.10	7,812.51	98.39	34.09	-89.26	1,229.96	3,196.28	5,828.07	5,739.78	88.29	66.007	
14,600.00	7,870.00	7,977.10	7,812.50	100.00	34.09	-89.26	1,229.96	3,196.28	5,925.68	5,837.26	88.42	67.018	
14,700.00	7,870.00	7,977.09	7,812.49	101.62	34.09	-89.26	1,229.96	3,196.28	6,023.37	5,934.83	88.54	68.028	
14,800.00	7,870.00	7,977.08	7,812.48	103.24	34.09	-89.26	1,229.96	3,196.28	6,121.14	6,032.48	88.66	69.040	
14,900.00	7,870.00	7,977.07	7,812.47	104.87	34.09	-89.26	1,229.96	3,196.28	6,218.98	6,130.20	88.78	70.051	
15,000.00	7,870.00	7,977.06	7,812.46	106.50	34.09	-89.26	1,229.96	3,196.28	6,316.88	6,227.99	88.89	71.064	
15,100.00	7,870.00	7,977.05	7,812.45	108.13	34.09	-89.26	1,229.96	3,196.28	6,414.85	6,325.85	89.00	72.076	
15,200.00	7,870.00	7,977.04	7,812.44	109.77	34.09	-89.26	1,229.96	3,196.28	6,512.88	6,423.77	89.11	73.089	
15,300.00	7,870.00	7,977.03	7,812.43	111.41	34.09	-89.26	1,229.96	3,196.28	6,610.97	6,521.76	89.21	74.102	
15,400.00	7,870.00	7,977.02	7,812.42	113.05	34.09	-89.26	1,229.96	3,196.28	6,709.12	6,619.80	89.32	75.115	
15,500.00	7,870.00	7,977.01	7,812.41	114.70	34.09	-89.26	1,229.96	3,196.28	6,807.32	6,717.90	89.42	76.128	
15,600.00	7,870.00	7,977.00	7,812.40	116.35	34.09	-89.25	1,229.96	3,196.28	6,905.57	6,816.05	89.52	77.141	
15,700.00	7,870.00	7,976.99	7,812.39	118.00	34.09	-89.25	1,229.96	3,196.28	7,003.87	6,914.25	89.62	78.154	
15,800.00	7,870.00	7,976.98	7,812.38	119.66	34.09	-89.25	1,229.96	3,196.28	7,102.22	7,012.51	89.71	79.167	
15,900.00	7,870.00	7,976.97	7,812.37	121.32	34.09	-89.25	1,229.96	3,196.28	7,200.61	7,110.81	89.81	80.180	
16,000.00	7,870.00	7,976.96	7,812.36	122.98	34.09	-89.25	1,229.96	3,196.28	7,299.05	7,209.15	89.90	81.193	
16,100.00	7,870.00	7,976.95	7,812.35	124.65	34.09	-89.25	1,229.96	3,196.28	7,397.53	7,307.54	89.99	82.205	
16,200.00	7,870.00	7,976.94	7,812.34	126.32	34.09	-89.25	1,229.96	3,196.28	7,496.05	7,405.97	90.08	83.217	
16,300.00	7,870.00	7,976.93	7,812.33	127.99	34.09	-89.25	1,229.96	3,196.28	7,594.61	7,504.44	90.17	84.229	
16,400.00	7,870.00	7,976.92	7,812.32	129.66	34.09	-89.25	1,229.96	3,196.28	7,693.21	7,602.95	90.25	85.241	
16,500.00	7,870.00	7,976.91	7,812.31	131.33	34.09	-89.25	1,229.96	3,196.28	7,791.84	7,701.50	90.34	86.252	
16,600.00	7,870.00	7,976.90	7,812.30	133.01	34.09	-89.25	1,229.96	3,196.28	7,890.50	7,800.08	90.42	87.263	
16,700.00	7,870.00	7,976.89	7,812.29	134.69	34.09	-89.25	1,229.96	3,196.28	7,989.20	7,898.70	90.51	88.273	
16,800.00	7,870.00	7,976.88	7,812.28	136.37	34.09	-89.25	1,229.96	3,196.28	8,087.94	7,997.35	90.59	89.282	
16,900.00	7,870.00	7,976.87	7,812.27	138.06	34.09	-89.25	1,229.96	3,196.28	8,186.70	8,096.03	90.67	90.292	
17,000.00	7,870.00	7,976.86	7,812.27	139.74	34.09	-89.25	1,229.96	3,196.28	8,285.49	8,194.74	90.75	91.300	
17,100.00	7,870.00	7,976.85	7,812.26	141.43	34.09	-89.25	1,229.96	3,196.28	8,384.31	8,293.48	90.83	92.308	
17,200.00	7,870.00	7,976.84	7,812.25	143.12	34.09	-89.25	1,229.96	3,196.28	8,483.16	8,392.25	90.91	93.316	
17,300.00	7,870.00	7,976.83	7,812.24	144.81	34.09	-89.25	1,229.96	3,196.28	8,582.03	8,491.05	90.99	94.322	
17,400.00	7,870.00	7,976.82	7,812.23	146.50	34.09	-89.25	1,229.96	3,196.28	8,680.93	8,589.87	91.06	95.328	
17,500.00	7,870.00	7,976.81	7,812.22	148.19	34.09	-89.25	1,229.96	3,196.28	8,779.86	8,688.72	91.14	96.334	
17,600.00	7,870.00	7,976.80	7,812.21	149.89	34.09	-89.25	1,229.96	3,196.28	8,878.81	8,787.59	91.22	97.338	
17,700.00	7,870.00	7,976.79	7,812.20	151.59	34.09	-89.25	1,229.96	3,196.28	8,977.78	8,886.49	91.29	98.342	
17,800.00	7,870.00	7,976.78	7,812.19	153.29	34.09	-89.25	1,229.96	3,196.28	9,076.78	8,985.41	91.37	99.345	
17,900.00	7,870.00	7,976.78	7,812.18	154.99	34.09	-89.24	1,229.96	3,196.28	9,175.79	9,084.35	91.44	100.348	
18,000.00	7,870.00	7,976.77	7,812.17	156.69	34.09	-89.24	1,229.96	3,196.28	9,274.83	9,183.32	91.51	101.349	
18,100.00	7,870.00	7,976.76	7,812.16	158.39	34.09	-89.24	1,229.96	3,196.28	9,373.89	9,282.30	91.59	102.350	
18,200.00	7,870.00	7,976.75	7,812.15	160.09	34.09	-89.24	1,229.96	3,196.28	9,472.97	9,381.31	91.66	103.349	
18,300.00	7,870.00	7,976.74	7,812.14	161.80	34.09	-89.24	1,229.96	3,196.28	9,572.07	9,480.33	91.73	104.348	
18,400.00	7,870.00	7,976.73	7,812.13	163.51	34.09	-89.24	1,229.96	3,196.28	9,671.18	9,579.38	91.80	105.346	
18,455.45	7,870.00	7,976.72	7,812.13	164.45	34.09	-89.24	1,229.96	3,196.28	9,726.15	9,634.31	91.84	105.899	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	70.76	753.44	2,158.47	2,286.58				
100.00	100.00	79.49	79.48	0.13	0.13	70.76	753.13	2,158.19	2,285.92	2,285.66	0.26	8,791.567	
200.00	200.00	166.41	166.40	0.49	0.41	70.77	752.69	2,157.64	2,285.18	2,284.27	0.90	2,535.187	
300.00	300.00	275.35	275.34	0.85	0.80	70.76	752.99	2,157.02	2,284.74	2,283.09	1.65	1,388.149	
400.00	400.00	381.43	381.42	1.21	1.17	70.75	752.92	2,156.10	2,283.90	2,281.52	2.38	958.724	
500.00	500.00	539.51	539.43	1.57	1.74	70.83	748.96	2,154.04	2,281.99	2,278.69	3.30	691.182	
600.00	600.00	662.58	662.16	1.93	2.19	71.01	740.53	2,151.32	2,277.59	2,273.49	4.10	555.037	
700.00	700.00	741.48	740.63	2.29	2.48	71.20	732.35	2,150.71	2,273.48	2,268.73	4.75	478.452	
800.00	800.00	819.39	817.87	2.64	2.78	71.44	722.26	2,151.56	2,270.35	2,264.94	5.41	419.920	
900.00	900.00	875.11	872.94	3.00	3.00	71.66	713.93	2,153.34	2,268.66	2,262.67	5.99	378.964	
931.66	931.66	892.06	889.66	3.12	3.07	71.73	711.30	2,154.15	2,268.55	2,262.38	6.17	367.829	
1,000.00	1,000.00	920.00	917.20	3.36	3.18	71.85	706.85	2,155.77	2,269.07	2,262.55	6.52	347.881	
1,100.00	1,100.00	987.78	983.79	3.72	3.46	72.16	695.37	2,161.03	2,271.36	2,264.20	7.17	317.006	
1,200.00	1,200.00	1,040.46	1,035.31	4.08	3.69	72.44	685.75	2,166.39	2,275.64	2,267.90	7.74	293.913	
1,300.00	1,300.00	1,088.47	1,082.07	4.44	3.90	72.70	676.73	2,172.44	2,282.19	2,273.88	8.31	274.791	
1,400.00	1,399.98	1,143.44	1,135.41	4.79	4.15	30.01	666.26	2,180.61	2,289.46	2,280.56	8.90	257.202	
1,500.00	1,499.84	1,207.93	1,197.88	5.15	4.45	30.35	654.24	2,191.20	2,295.54	2,286.00	9.54	240.609	
1,600.00	1,599.45	1,279.00	1,266.78	5.51	4.79	30.77	641.85	2,203.43	2,299.99	2,289.77	10.21	225.175	
1,700.00	1,698.70	1,345.11	1,330.81	5.87	5.11	31.19	630.68	2,215.52	2,302.90	2,292.03	10.87	211.906	
1,800.00	1,797.47	1,413.00	1,396.30	6.24	5.45	31.68	618.86	2,228.99	2,304.49	2,292.95	11.53	199.791	
1,900.00	1,895.62	1,491.86	1,471.97	6.63	5.87	32.33	604.26	2,245.65	2,304.50	2,292.22	12.28	187.686	
2,000.00	1,993.06	1,590.80	1,566.75	7.04	6.41	33.23	585.20	2,266.69	2,302.07	2,288.91	13.16	174.994	
2,100.00	2,089.64	1,681.08	1,653.23	7.48	6.92	34.12	567.87	2,285.97	2,297.40	2,283.41	14.00	164.158	
2,200.00	2,185.27	1,776.28	1,744.51	7.94	7.46	35.13	549.74	2,306.01	2,290.23	2,275.35	14.88	153.947	
2,300.00	2,279.82	1,850.21	1,815.37	8.45	7.88	36.00	535.86	2,321.93	2,281.37	2,265.73	15.65	145.800	
2,400.00	2,373.17	1,968.34	1,928.76	8.99	8.57	37.41	513.92	2,346.68	2,269.91	2,253.22	16.70	135.945	
2,500.00	2,465.21	2,044.15	2,001.56	9.58	9.01	38.44	499.83	2,362.48	2,256.49	2,238.97	17.52	128.800	
2,574.08	2,532.50	2,095.09	2,050.40	10.04	9.31	39.19	490.32	2,373.41	2,245.79	2,227.67	18.12	123.972	
2,600.00	2,555.89	2,112.80	2,067.36	10.21	9.41	39.41	487.00	2,377.28	2,242.00	2,223.68	18.33	122.339	
2,700.00	2,646.16	2,232.77	2,182.13	10.88	10.13	40.92	463.43	2,403.07	2,227.72	2,208.25	19.47	114.399	
2,800.00	2,736.44	2,323.19	2,268.65	11.57	10.68	42.09	444.92	2,421.69	2,213.60	2,193.13	20.47	108.151	
2,900.00	2,826.71	2,388.73	2,331.40	12.27	11.08	42.93	431.91	2,435.39	2,200.84	2,179.52	21.32	103.229	
3,000.00	2,916.98	2,475.98	2,414.98	13.00	11.61	44.05	415.23	2,454.12	2,189.68	2,167.36	22.32	98.103	
3,100.00	3,007.25	2,565.64	2,500.81	13.73	12.15	45.22	397.58	2,473.08	2,179.33	2,155.97	23.35	93.315	
3,200.00	3,097.52	2,651.26	2,582.65	14.48	12.68	46.36	380.08	2,491.18	2,170.12	2,145.74	24.38	89.011	
3,300.00	3,187.80	2,736.55	2,664.28	15.23	13.20	47.49	363.24	2,509.25	2,162.07	2,136.66	25.41	85.075	
3,400.00	3,278.07	2,823.75	2,747.83	15.99	13.73	48.64	346.57	2,527.83	2,155.22	2,128.75	26.47	81.432	
3,500.00	3,368.34	2,933.63	2,853.17	16.76	14.40	50.10	325.38	2,550.81	2,149.22	2,121.54	27.67	77.662	
3,600.00	3,458.61	3,021.52	2,937.64	17.54	14.93	51.27	308.37	2,568.13	2,143.27	2,114.52	28.75	74.546	
3,700.00	3,548.89	3,085.45	2,999.01	18.32	15.31	52.12	296.37	2,581.43	2,139.34	2,109.66	29.68	72.079	
3,800.00	3,639.16	3,178.54	3,088.23	19.10	15.88	53.36	278.40	2,600.98	2,136.83	2,106.03	30.81	69.361	
3,900.00	3,729.43	3,273.53	3,179.39	19.89	16.46	54.63	260.32	2,620.66	2,135.20	2,103.25	31.95	66.822	
4,000.00	3,819.70	3,361.81	3,264.20	20.69	16.99	55.80	243.93	2,638.84	2,134.54	2,101.48	33.06	64.573	
4,005.06	3,824.27	3,366.30	3,268.52	20.73	17.02	55.86	243.09	2,639.76	2,134.53	2,101.42	33.11	64.463	
4,100.00	3,909.98	3,443.68	3,342.84	21.48	17.48	56.89	228.69	2,655.76	2,135.09	2,100.96	34.12	62.571	
4,200.00	4,000.25	3,523.16	3,419.07	22.28	17.97	57.96	213.39	2,672.27	2,137.02	2,101.84	35.18	60.742	
4,300.00	4,090.52	3,603.07	3,495.54	23.08	18.46	59.04	197.28	2,688.92	2,140.43	2,104.18	36.25	59.048	
4,400.00	4,180.79	3,700.28	3,588.68	23.88	19.06	60.34	178.54	2,709.48	2,145.06	2,107.63	37.44	57.300	
4,500.00	4,271.06	3,779.94	3,665.18	24.69	19.55	61.38	163.90	2,726.21	2,150.44	2,111.94	38.50	55.857	
4,600.00	4,361.34	3,862.83	3,744.53	25.49	20.06	62.48	147.74	2,743.92	2,157.57	2,117.99	39.59	54.500	
4,700.00	4,451.61	3,954.12	3,832.03	26.30	20.62	63.69	129.91	2,762.86	2,165.33	2,124.59	40.74	53.148	
4,800.00	4,541.88	4,022.02	3,897.03	27.11	21.04	64.58	116.80	2,777.50	2,174.82	2,133.10	41.72	52.126	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,632.15	4,130.72	4,001.09	27.92	21.72	65.99	95.67	2,800.71	2,185.30	2,142.30	43.01	50.815	
5,000.00	4,722.43	4,231.19	4,097.67	28.74	22.33	67.25	77.79	2,821.85	2,195.95	2,151.72	44.22	49.658	
5,100.00	4,812.70	4,306.61	4,170.12	29.55	22.78	68.20	64.28	2,837.84	2,207.81	2,162.56	45.25	48.788	
5,200.00	4,902.97	4,398.66	4,258.45	30.37	23.34	69.36	46.71	2,856.90	2,220.80	2,174.38	46.41	47.847	
5,300.00	4,993.24	4,452.39	4,309.89	31.18	23.68	70.04	36.14	2,868.29	2,235.42	2,188.14	47.28	47.280	
5,400.00	5,083.51	4,520.04	4,374.43	32.00	24.11	70.88	22.64	2,883.42	2,252.13	2,203.88	48.25	46.677	
5,500.00	5,173.79	4,596.14	4,446.87	32.82	24.60	71.85	6.39	2,900.10	2,270.20	2,220.91	49.29	46.062	
5,600.00	5,264.06	4,659.80	4,507.31	33.63	25.02	72.66	-7.76	2,914.26	2,289.96	2,239.74	50.21	45.604	
5,700.00	5,354.33	4,846.77	4,686.06	34.45	26.20	74.93	-45.50	2,953.90	2,308.54	2,256.38	52.16	44.257	
5,800.00	5,444.60	5,800.00	4,862.29	35.27	31.46	77.09	-77.98	2,986.66	2,324.62	2,267.54	57.08	40.724	
5,900.00	5,534.88	5,597.51	5,425.02	36.09	29.51	83.27	-126.07	3,041.16	2,328.81	2,271.60	57.21	40.708	
6,000.00	5,625.15	5,738.35	5,565.82	36.91	29.87	84.74	-127.11	3,043.39	2,325.69	2,267.30	58.39	39.834	
6,100.00	5,715.42	5,843.88	5,671.35	37.74	30.12	85.85	-127.05	3,043.85	2,322.13	2,262.63	59.50	39.030	
6,200.00	5,805.69	5,934.13	5,761.60	38.56	30.33	86.81	-127.20	3,043.84	2,319.18	2,258.59	60.59	38.278	
6,300.00	5,895.96	6,031.37	5,858.85	39.38	30.56	87.83	-126.90	3,044.12	2,316.97	2,255.28	61.69	37.560	
6,400.00	5,986.24	6,131.97	5,959.44	40.20	30.78	88.90	-126.48	3,043.75	2,315.02	2,252.24	62.78	36.874	
6,500.00	6,076.51	6,217.93	6,045.40	41.03	30.97	89.82	-126.31	3,043.22	2,313.84	2,249.98	63.86	36.233	
6,560.60	6,131.22	6,267.93	6,095.40	41.53	31.08	90.36	-126.18	3,043.09	2,313.64	2,249.13	64.51	35.863	
6,600.00	6,166.78	6,301.77	6,129.24	41.85	31.15	90.71	-126.08	3,043.09	2,313.72	2,248.78	64.94	35.629	
6,700.00	6,257.05	6,395.94	6,223.41	42.67	31.37	91.72	-125.97	3,042.96	2,314.52	2,248.49	66.03	35.053	
6,800.00	6,347.33	6,500.93	6,328.39	43.50	31.60	92.84	-125.55	3,042.04	2,315.43	2,248.30	67.13	34.493	
6,900.00	6,437.60	6,576.67	6,404.13	44.32	31.78	93.63	-124.50	3,042.39	2,317.36	2,249.17	68.19	33.982	
7,000.00	6,527.87	6,649.82	6,477.26	45.15	31.96	94.37	-123.54	3,043.43	2,320.68	2,251.43	69.25	33.510	
7,100.00	6,618.14	6,744.57	6,572.00	45.98	32.21	95.34	-122.81	3,044.72	2,325.07	2,254.72	70.35	33.052	
7,200.00	6,708.41	6,818.27	6,645.68	46.80	32.40	96.09	-122.23	3,045.95	2,330.36	2,258.96	71.40	32.639	
7,300.00	6,798.69	6,926.89	6,754.27	47.63	32.69	97.17	-121.17	3,048.51	2,336.68	2,264.17	72.51	32.225	
7,400.00	6,888.96	7,018.98	6,846.36	48.45	32.92	98.13	-121.09	3,048.57	2,343.01	2,269.43	73.58	31.843	
7,500.00	6,979.23	7,124.51	6,951.89	49.28	33.17	99.25	-121.30	3,047.89	2,349.92	2,275.26	74.66	31.476	
7,600.00	7,069.50	7,228.52	7,055.88	50.11	33.42	100.33	-120.87	3,046.89	2,357.01	2,281.29	75.72	31.129	
7,692.09	7,152.63	7,326.59	7,153.94	50.87	33.65	101.35	-119.71	3,045.68	2,363.54	2,286.85	76.69	30.820	
7,700.00	7,159.79	7,331.34	7,158.69	50.93	33.66	100.21	-119.65	3,045.62	2,364.08	2,287.31	76.76	30.796	
7,750.00	7,205.70	7,361.78	7,189.13	51.32	33.73	91.53	-119.34	3,045.32	2,365.64	2,288.40	77.24	30.628	
7,800.00	7,252.52	7,392.80	7,220.15	51.66	33.80	79.96	-119.18	3,045.14	2,363.97	2,286.30	77.68	30.433	
7,850.00	7,299.89	7,437.58	7,264.92	51.96	33.91	65.78	-119.17	3,045.01	2,359.00	2,280.90	78.11	30.202	
7,900.00	7,347.44	7,498.58	7,325.92	52.20	34.06	50.35	-119.06	3,044.53	2,350.28	2,271.76	78.53	29.929	
7,950.00	7,394.83	7,541.63	7,368.98	52.39	34.17	35.56	-118.92	3,044.10	2,337.91	2,259.04	78.87	29.641	
8,000.00	7,441.68	7,582.60	7,409.94	52.53	34.27	22.96	-118.80	3,043.87	2,322.18	2,243.01	79.17	29.330	
8,050.00	7,487.65	7,628.31	7,455.65	52.62	34.38	12.76	-118.64	3,043.77	2,303.14	2,223.70	79.44	28.991	
8,100.00	7,532.37	7,676.00	7,503.34	52.67	34.50	4.47	-118.39	3,043.72	2,280.79	2,201.11	79.68	28.624	
8,150.00	7,575.52	7,714.27	7,541.61	52.67	34.60	-2.52	-118.16	3,043.71	2,255.33	2,175.47	79.86	28.240	
8,200.00	7,616.76	7,746.65	7,573.99	52.63	34.69	-8.71	-118.07	3,043.74	2,227.11	2,147.12	80.00	27.840	
8,250.00	7,655.77	7,777.46	7,604.80	52.55	34.77	-14.49	-118.10	3,043.82	2,196.35	2,116.26	80.09	27.423	
8,300.00	7,692.27	7,812.86	7,640.19	52.44	34.87	-20.25	-118.23	3,043.95	2,163.24	2,083.08	80.16	26.987	
8,350.00	7,725.97	7,848.02	7,675.36	52.29	34.97	-26.24	-118.34	3,044.05	2,127.94	2,047.75	80.19	26.536	
8,400.00	7,756.62	7,879.98	7,707.32	52.12	35.06	-32.67	-118.44	3,044.12	2,090.76	2,010.58	80.18	26.076	
8,450.00	7,783.98	7,907.62	7,734.96	51.92	35.14	-39.65	-118.51	3,044.18	2,052.04	1,971.91	80.12	25.611	
8,500.00	7,807.85	7,931.70	7,759.04	51.70	35.20	-47.23	-118.56	3,044.26	2,012.14	1,932.11	80.02	25.144	
8,550.00	7,828.05	7,952.05	7,779.38	51.45	35.26	-55.32	-118.58	3,044.35	1,971.43	1,891.55	79.88	24.679	
8,600.00	7,844.41	7,968.51	7,795.85	51.20	35.31	-63.65	-118.60	3,044.42	1,930.31	1,850.61	79.70	24.221	
8,650.00	7,856.82	7,980.98	7,808.31	50.93	35.34	-71.87	-118.60	3,044.49	1,889.16	1,809.69	79.47	23.772	
8,700.00	7,865.18	7,988.84	7,816.18	50.65	35.36	-79.55	-118.60	3,044.53	1,848.41	1,769.20	79.20	23.338	
8,750.00	7,869.43	7,992.97	7,820.30	50.36	35.38	-86.42	-118.60	3,044.56	1,808.44	1,729.54	78.89	22.922	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,776.25	7,870.00	7,993.53	7,820.86	50.21	35.38	-89.64	-118.60	3,044.56	1,787.90	1,709.18	78.72	22.713	
8,800.00	7,870.00	7,993.53	7,820.87	50.08	35.38	-89.64	-118.60	3,044.56	1,769.55	1,691.00	78.55	22.527	
8,900.00	7,870.00	7,993.56	7,820.90	49.53	35.38	-89.64	-118.60	3,044.56	1,693.76	1,615.93	77.83	21.763	
9,000.00	7,870.00	7,993.59	7,820.93	49.01	35.38	-89.64	-118.60	3,044.56	1,620.59	1,543.54	77.05	21.032	
9,100.00	7,870.00	7,993.62	7,820.96	48.52	35.38	-89.64	-118.60	3,044.56	1,550.43	1,474.19	76.23	20.338	
9,200.00	7,870.00	7,993.65	7,820.99	48.06	35.38	-89.64	-118.60	3,044.56	1,483.69	1,408.31	75.37	19.684	
9,300.00	7,870.00	7,993.68	7,821.02	47.63	35.38	-89.65	-118.61	3,044.56	1,420.85	1,346.36	74.49	19.074	
9,400.00	7,870.00	7,993.71	7,821.05	47.22	35.38	-89.65	-118.61	3,044.56	1,362.47	1,288.87	73.61	18.510	
9,500.00	7,870.00	7,993.74	7,821.07	46.83	35.38	-89.65	-118.61	3,044.56	1,309.13	1,236.38	72.75	17.994	
9,600.00	7,870.00	7,993.77	7,821.10	46.48	35.38	-89.65	-118.61	3,044.56	1,261.48	1,189.51	71.97	17.527	
9,700.00	7,870.00	7,993.80	7,821.13	46.14	35.38	-89.65	-118.61	3,044.56	1,220.18	1,148.86	71.32	17.107	
9,800.00	7,870.00	7,993.82	7,821.16	45.83	35.38	-89.65	-118.61	3,044.56	1,185.89	1,115.02	70.87	16.733	
9,900.00	7,870.00	7,993.85	7,821.19	45.54	35.38	-89.65	-118.61	3,044.56	1,159.24	1,088.56	70.68	16.401	
10,000.00	7,870.00	7,993.88	7,821.22	45.27	35.38	-89.66	-118.61	3,044.56	1,140.77	1,069.95	70.81	16.109	
10,100.00	7,870.00	7,993.91	7,821.25	45.03	35.38	-89.66	-118.61	3,044.56	1,130.86	1,059.56	71.30	15.860	
10,162.48	7,870.00	7,993.93	7,821.27	44.89	35.38	-89.66	-118.61	3,044.56	1,129.14	1,057.34	71.80	15.726	CC, ES
10,200.00	7,870.00	7,993.94	7,821.28	44.82	35.38	-89.66	-118.61	3,044.56	1,129.76	1,057.61	72.15	15.659	
10,300.00	7,870.00	7,993.97	7,821.31	44.66	35.38	-89.66	-118.61	3,044.56	1,137.48	1,064.18	73.30	15.517	
10,400.00	7,870.00	7,994.00	7,821.33	44.56	35.38	-89.66	-118.61	3,044.56	1,153.85	1,079.15	74.70	15.447	SF
10,500.00	7,870.00	7,994.03	7,821.36	44.58	35.38	-89.66	-118.61	3,044.56	1,178.50	1,102.27	76.23	15.459	
10,600.00	7,870.00	7,994.05	7,821.39	44.82	35.38	-89.66	-118.61	3,044.56	1,210.94	1,133.12	77.82	15.561	
10,700.00	7,870.00	7,994.08	7,821.42	45.36	35.38	-89.67	-118.61	3,044.56	1,250.55	1,171.17	79.38	15.754	
10,800.00	7,870.00	7,994.11	7,821.45	46.15	35.38	-89.67	-118.61	3,044.56	1,296.68	1,215.82	80.86	16.036	
10,900.00	7,870.00	7,994.14	7,821.48	47.09	35.38	-89.67	-118.61	3,044.56	1,348.66	1,266.44	82.22	16.403	
11,000.00	7,870.00	7,994.17	7,821.51	48.13	35.38	-89.67	-118.61	3,044.56	1,405.84	1,322.40	83.44	16.848	
11,100.00	7,870.00	7,994.20	7,821.53	49.22	35.38	-89.67	-118.61	3,044.57	1,467.61	1,383.09	84.53	17.363	
11,200.00	7,870.00	7,994.23	7,821.56	50.37	35.38	-89.67	-118.61	3,044.57	1,533.42	1,447.95	85.47	17.940	
11,300.00	7,870.00	7,994.25	7,821.59	51.55	35.38	-89.67	-118.61	3,044.57	1,602.78	1,516.48	86.30	18.573	
11,400.00	7,870.00	7,994.28	7,821.62	52.76	35.38	-89.68	-118.61	3,044.57	1,675.23	1,588.22	87.01	19.253	
11,500.00	7,870.00	7,994.31	7,821.65	54.00	35.38	-89.68	-118.61	3,044.57	1,750.40	1,662.78	87.62	19.977	
11,600.00	7,870.00	7,994.34	7,821.68	55.27	35.38	-89.68	-118.61	3,044.57	1,827.95	1,739.80	88.15	20.737	
11,700.00	7,870.00	7,994.37	7,821.70	56.56	35.38	-89.68	-118.61	3,044.57	1,907.59	1,818.99	88.60	21.531	
11,800.00	7,870.00	7,994.40	7,821.73	57.88	35.38	-89.68	-118.61	3,044.57	1,989.07	1,900.09	88.99	22.352	
11,900.00	7,870.00	7,994.42	7,821.76	59.21	35.38	-89.68	-118.61	3,044.57	2,072.18	1,982.86	89.32	23.199	
12,000.00	7,870.00	7,994.45	7,821.79	60.57	35.38	-89.68	-118.61	3,044.57	2,156.71	2,067.11	89.61	24.069	
12,100.00	7,870.00	7,994.48	7,821.82	61.94	35.38	-89.69	-118.61	3,044.57	2,242.53	2,152.67	89.85	24.958	
12,200.00	7,870.00	7,994.51	7,821.85	63.33	35.38	-89.69	-118.61	3,044.57	2,329.47	2,239.40	90.07	25.864	
12,300.00	7,870.00	7,994.54	7,821.87	64.74	35.38	-89.69	-118.61	3,044.57	2,417.42	2,327.17	90.25	26.786	
12,400.00	7,870.00	7,994.57	7,821.90	66.16	35.38	-89.69	-118.61	3,044.57	2,506.28	2,415.87	90.41	27.721	
12,500.00	7,870.00	7,994.59	7,821.93	67.59	35.38	-89.69	-118.61	3,044.57	2,595.95	2,505.40	90.55	28.669	
12,600.00	7,870.00	7,994.62	7,821.96	69.04	35.38	-89.69	-118.61	3,044.57	2,686.34	2,595.67	90.67	29.628	
12,700.00	7,870.00	7,994.65	7,821.99	70.51	35.38	-89.69	-118.61	3,044.57	2,777.40	2,686.62	90.78	30.596	
12,800.00	7,870.00	7,994.68	7,822.02	71.98	35.38	-89.70	-118.61	3,044.57	2,869.05	2,778.18	90.87	31.573	
12,900.00	7,870.00	7,994.71	7,822.04	73.47	35.38	-89.70	-118.61	3,044.57	2,961.24	2,870.29	90.95	32.559	
13,000.00	7,870.00	7,994.73	7,822.07	74.96	35.38	-89.70	-118.61	3,044.57	3,053.92	2,962.90	91.02	33.551	
13,100.00	7,870.00	7,994.76	7,822.10	76.47	35.38	-89.70	-118.61	3,044.57	3,147.05	3,055.97	91.09	34.550	
13,200.00	7,870.00	7,994.79	7,822.13	77.99	35.38	-89.70	-118.61	3,044.57	3,240.60	3,149.45	91.14	35.555	
13,300.00	7,870.00	7,994.82	7,822.16	79.51	35.38	-89.70	-118.61	3,044.57	3,334.51	3,243.32	91.19	36.565	
13,400.00	7,870.00	7,994.85	7,822.18	81.05	35.38	-89.70	-118.61	3,044.57	3,428.77	3,337.53	91.24	37.580	
13,500.00	7,870.00	7,994.87	7,822.21	82.59	35.38	-89.71	-118.61	3,044.57	3,523.35	3,432.07	91.28	38.599	
13,600.00	7,870.00	7,994.90	7,822.24	84.14	35.38	-89.71	-118.61	3,044.57	3,618.21	3,526.90	91.32	39.622	
13,700.00	7,870.00	7,994.93	7,822.27	85.70	35.38	-89.71	-118.61	3,044.57	3,713.35	3,622.00	91.35	40.649	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 91-MWD OWSG

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	7,870.00	7,994.96	7,822.30	87.26	35.38	-89.71	-118.61	3,044.57	3,808.74	3,717.35	91.38	41.679	
13,900.00	7,870.00	7,994.99	7,822.32	88.83	35.38	-89.71	-118.61	3,044.57	3,904.35	3,812.94	91.41	42.712	
14,000.00	7,870.00	7,995.01	7,822.35	90.41	35.38	-89.71	-118.61	3,044.57	4,000.19	3,908.75	91.44	43.747	
14,100.00	7,870.00	7,995.04	7,822.38	92.00	35.38	-89.71	-118.61	3,044.57	4,096.22	4,004.75	91.46	44.786	
14,200.00	7,870.00	7,995.07	7,822.41	93.59	35.38	-89.72	-118.61	3,044.57	4,192.43	4,100.95	91.49	45.826	
14,300.00	7,870.00	7,995.10	7,822.43	95.18	35.38	-89.72	-118.61	3,044.57	4,288.82	4,197.31	91.51	46.868	
14,400.00	7,870.00	7,995.12	7,822.46	96.79	35.38	-89.72	-118.61	3,044.57	4,385.37	4,293.84	91.53	47.912	
14,500.00	7,870.00	7,995.15	7,822.49	98.39	35.38	-89.72	-118.61	3,044.57	4,482.08	4,390.53	91.55	48.958	
14,600.00	7,870.00	7,995.18	7,822.52	100.00	35.38	-89.72	-118.61	3,044.57	4,578.92	4,487.35	91.57	50.005	
14,700.00	7,870.00	7,995.21	7,822.54	101.62	35.38	-89.72	-118.61	3,044.57	4,675.90	4,584.31	91.59	51.053	
14,800.00	7,870.00	7,995.24	7,822.57	103.24	35.38	-89.72	-118.61	3,044.57	4,773.00	4,681.39	91.61	52.103	
14,900.00	7,870.00	7,995.26	7,822.60	104.87	35.38	-89.73	-118.61	3,044.57	4,870.22	4,778.59	91.63	53.154	
15,000.00	7,870.00	7,995.29	7,822.63	106.50	35.38	-89.73	-118.61	3,044.57	4,967.55	4,875.90	91.64	54.205	
15,100.00	7,870.00	7,995.32	7,822.65	108.13	35.38	-89.73	-118.61	3,044.57	5,064.98	4,973.32	91.66	55.258	
15,200.00	7,870.00	7,995.35	7,822.68	109.77	35.38	-89.73	-118.61	3,044.57	5,162.51	5,070.83	91.68	56.311	
15,300.00	7,870.00	7,995.37	7,822.71	111.41	35.38	-89.73	-118.61	3,044.57	5,260.14	5,168.44	91.70	57.364	
15,400.00	7,870.00	7,995.40	7,822.74	113.05	35.38	-89.73	-118.61	3,044.57	5,357.85	5,266.13	91.72	58.418	
15,500.00	7,870.00	7,995.43	7,822.76	114.70	35.38	-89.73	-118.61	3,044.57	5,455.64	5,363.91	91.73	59.473	
15,600.00	7,870.00	7,995.46	7,822.79	116.35	35.38	-89.74	-118.61	3,044.57	5,553.52	5,461.76	91.75	60.528	
15,700.00	7,870.00	7,995.48	7,822.82	118.00	35.38	-89.74	-118.61	3,044.57	5,651.46	5,559.69	91.77	61.583	
15,800.00	7,870.00	7,995.51	7,822.85	119.66	35.38	-89.74	-118.61	3,044.57	5,749.48	5,657.69	91.79	62.638	
15,900.00	7,870.00	7,995.54	7,822.87	121.32	35.38	-89.74	-118.61	3,044.57	5,847.57	5,755.76	91.81	63.694	
16,000.00	7,870.00	7,995.56	7,822.90	122.98	35.38	-89.74	-118.61	3,044.57	5,945.72	5,853.89	91.83	64.749	
16,100.00	7,870.00	7,995.59	7,822.93	124.65	35.38	-89.74	-118.61	3,044.57	6,043.93	5,952.08	91.85	65.804	
16,200.00	7,870.00	7,995.62	7,822.96	126.32	35.38	-89.74	-118.61	3,044.57	6,142.19	6,050.33	91.87	66.860	
16,300.00	7,870.00	7,995.65	7,822.98	127.99	35.38	-89.75	-118.61	3,044.57	6,240.52	6,148.63	91.89	67.915	
16,400.00	7,870.00	7,995.67	7,823.01	129.66	35.38	-89.75	-118.61	3,044.57	6,338.89	6,246.99	91.91	68.970	
16,500.00	7,870.00	7,995.70	7,823.04	131.33	35.38	-89.75	-118.61	3,044.57	6,437.32	6,345.39	91.93	70.025	
16,600.00	7,870.00	7,995.73	7,823.07	133.01	35.38	-89.75	-118.61	3,044.57	6,535.79	6,443.84	91.95	71.079	
16,700.00	7,870.00	7,995.76	7,823.09	134.69	35.38	-89.75	-118.61	3,044.57	6,634.31	6,542.34	91.97	72.133	
16,800.00	7,870.00	7,995.78	7,823.12	136.37	35.38	-89.75	-118.61	3,044.57	6,732.87	6,640.88	92.00	73.187	
16,900.00	7,870.00	7,995.81	7,823.15	138.06	35.38	-89.75	-118.61	3,044.57	6,831.48	6,739.46	92.02	74.240	
17,000.00	7,870.00	7,995.84	7,823.17	139.74	35.38	-89.76	-118.61	3,044.57	6,930.12	6,838.08	92.04	75.293	
17,100.00	7,870.00	7,995.86	7,823.20	141.43	35.38	-89.76	-118.61	3,044.58	7,028.80	6,936.74	92.07	76.346	
17,200.00	7,870.00	7,995.89	7,823.23	143.12	35.38	-89.76	-118.61	3,044.58	7,127.52	7,035.43	92.09	77.397	
17,300.00	7,870.00	7,995.92	7,823.25	144.81	35.38	-89.76	-118.61	3,044.58	7,226.28	7,134.16	92.11	78.449	
17,400.00	7,870.00	7,995.94	7,823.28	146.50	35.38	-89.76	-118.61	3,044.58	7,325.07	7,232.93	92.14	79.499	
17,500.00	7,870.00	7,995.97	7,823.31	148.19	35.38	-89.76	-118.61	3,044.58	7,423.89	7,331.72	92.17	80.549	
17,600.00	7,870.00	7,996.00	7,823.34	149.89	35.38	-89.76	-118.61	3,044.58	7,522.74	7,430.55	92.19	81.598	
17,700.00	7,870.00	7,996.03	7,823.36	151.59	35.38	-89.76	-118.61	3,044.58	7,621.62	7,529.40	92.22	82.647	
17,800.00	7,870.00	7,996.05	7,823.39	153.29	35.38	-89.77	-118.61	3,044.58	7,720.53	7,628.29	92.25	83.695	
17,900.00	7,870.00	7,996.08	7,823.42	154.99	35.38	-89.77	-118.61	3,044.58	7,819.47	7,727.20	92.27	84.742	
18,000.00	7,870.00	7,996.11	7,823.44	156.69	35.38	-89.77	-118.61	3,044.58	7,918.44	7,826.13	92.30	85.788	
18,100.00	7,870.00	7,996.13	7,823.47	158.39	35.38	-89.77	-118.61	3,044.58	8,017.43	7,925.09	92.33	86.833	
18,200.00	7,870.00	7,996.16	7,823.50	160.09	35.38	-89.77	-118.61	3,044.58	8,116.44	8,024.08	92.36	87.878	
18,300.00	7,870.00	7,996.19	7,823.52	161.80	35.38	-89.77	-118.61	3,044.58	8,215.48	8,123.09	92.39	88.921	
18,400.00	7,870.00	7,996.21	7,823.55	163.51	35.38	-89.77	-118.61	3,044.58	8,314.54	8,222.12	92.42	89.964	
18,455.45	7,870.00	7,996.23	7,823.57	164.45	35.38	-89.77	-118.61	3,044.58	8,369.48	8,277.04	92.44	90.541	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 109-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.18	746.66	5,434.41	5,486.07				
100.00	100.00	1,152.00	1,134.43	0.13	4.79	81.07	831.57	5,294.54	5,474.49	5,469.70	4.79	1,143.184	
200.00	200.00	1,211.55	1,192.04	0.49	5.11	80.98	838.75	5,281.29	5,454.27	5,449.04	5.24	1,041.663	
300.00	300.00	1,264.21	1,243.17	0.85	5.40	80.89	844.79	5,270.21	5,435.05	5,429.29	5.76	944.114	
400.00	400.00	1,345.37	1,322.06	1.21	5.83	80.77	853.99	5,253.53	5,416.37	5,409.93	6.44	840.693	
500.00	500.00	1,465.05	1,438.18	1.57	6.48	80.57	868.74	5,228.64	5,397.61	5,390.28	7.33	736.684	
600.00	600.00	1,653.30	1,619.99	1.93	7.54	80.21	894.60	5,187.25	5,377.95	5,369.39	8.56	628.565	
700.00	700.00	1,729.79	1,693.79	2.29	7.98	80.07	904.92	5,169.99	5,357.70	5,348.44	9.27	578.214	
800.00	800.00	1,824.61	1,785.31	2.64	8.52	79.89	917.64	5,148.66	5,337.59	5,327.53	10.06	530.315	
900.00	900.00	1,890.93	1,849.46	3.00	8.90	79.78	925.94	5,134.08	5,317.90	5,307.17	10.73	495.635	
1,000.00	1,000.00	1,945.68	1,902.60	3.36	9.19	79.69	932.26	5,122.48	5,298.90	5,287.56	11.34	467.431	
1,100.00	1,100.00	2,005.58	1,960.90	3.72	9.52	79.59	938.74	5,110.37	5,280.73	5,268.77	11.97	441.323	
1,200.00	1,200.00	2,154.89	2,106.09	4.08	10.32	79.35	955.56	5,079.87	5,262.55	5,249.56	12.99	405.063	
1,300.00	1,300.00	2,252.62	2,200.84	4.44	10.86	79.17	967.41	5,059.08	5,243.68	5,229.87	13.80	379.937	
1,400.00	1,399.98	2,324.89	2,270.94	4.79	11.26	36.35	976.32	5,043.91	5,223.78	5,209.28	14.50	360.334	
1,500.00	1,499.84	2,403.94	2,347.74	5.15	11.69	36.51	985.80	5,027.76	5,201.64	5,186.42	15.22	341.741	
1,600.00	1,599.45	2,511.26	2,451.92	5.51	12.28	36.68	999.24	5,005.79	5,176.86	5,160.79	16.07	322.095	
1,700.00	1,698.70	2,599.41	2,537.43	5.87	12.76	36.93	1,010.48	4,987.52	5,149.20	5,132.36	16.84	305.803	
1,800.00	1,797.47	2,673.20	2,609.15	6.24	13.16	37.25	1,019.38	4,972.65	5,119.29	5,101.76	17.53	291.947	
1,900.00	1,895.62	2,769.65	2,703.14	6.63	13.67	37.64	1,029.76	4,953.66	5,086.98	5,068.65	18.33	277.587	
2,000.00	1,993.06	2,991.05	2,917.44	7.04	14.92	38.05	1,057.45	4,905.49	5,049.90	5,030.21	19.69	256.462	
2,100.00	2,089.64	3,048.82	2,973.25	7.48	15.25	38.58	1,064.89	4,892.58	5,010.31	4,989.96	20.34	246.327	
2,200.00	2,185.27	3,116.00	3,038.10	7.94	15.63	39.15	1,074.50	4,877.90	4,968.85	4,947.81	21.04	236.119	
2,300.00	2,279.82	3,225.22	3,143.33	8.45	16.27	39.80	1,091.22	4,853.89	4,925.06	4,903.10	21.96	224.275	
2,400.00	2,373.17	3,283.48	3,199.43	8.99	16.61	40.50	1,100.33	4,841.10	4,878.88	4,856.22	22.66	215.353	
2,500.00	2,465.21	3,410.49	3,321.71	9.58	17.36	41.35	1,120.24	4,813.10	4,830.37	4,806.69	23.68	203.989	
2,574.08	2,532.50	3,512.91	3,420.30	10.04	17.96	42.08	1,135.12	4,789.70	4,792.29	4,767.82	24.47	195.821	
2,600.00	2,555.89	3,541.74	3,448.08	10.21	18.13	42.13	1,138.96	4,783.04	4,778.66	4,753.95	24.72	193.331	
2,700.00	2,646.16	3,609.76	3,513.75	10.88	18.52	42.25	1,147.31	4,767.37	4,726.04	4,700.56	25.48	185.512	
2,800.00	2,736.44	3,650.77	3,553.43	11.57	18.75	42.34	1,152.20	4,758.30	4,674.12	4,647.99	26.13	178.847	
2,900.00	2,826.71	3,737.56	3,637.58	12.27	19.24	42.51	1,162.64	4,739.74	4,622.90	4,595.91	26.99	171.273	
3,000.00	2,916.98	3,816.72	3,714.18	13.00	19.69	42.67	1,172.46	4,722.36	4,571.28	4,543.45	27.83	164.248	
3,100.00	3,007.25	3,891.20	3,786.30	13.73	20.11	42.82	1,182.06	4,706.41	4,520.18	4,491.52	28.67	157.682	
3,200.00	3,097.52	3,996.15	3,887.81	14.48	20.70	43.03	1,195.30	4,683.31	4,468.52	4,438.90	29.63	150.835	
3,300.00	3,187.80	4,055.00	3,944.89	15.23	21.03	43.16	1,202.15	4,670.75	4,417.37	4,386.95	30.41	145.239	
3,400.00	3,278.07	4,094.80	3,983.61	15.99	21.24	43.26	1,206.46	4,662.62	4,366.92	4,335.79	31.14	140.253	
3,500.00	3,368.34	4,150.00	4,037.49	16.76	21.53	43.40	1,211.95	4,651.94	4,317.33	4,285.41	31.92	135.251	
3,600.00	3,458.61	4,188.60	4,075.28	17.54	21.72	43.51	1,215.42	4,644.88	4,268.53	4,235.88	32.65	130.740	
3,700.00	3,548.89	4,243.00	4,128.69	18.32	21.98	43.68	1,219.70	4,635.46	4,220.56	4,187.13	33.44	126.227	
3,800.00	3,639.16	4,276.14	4,161.31	19.10	22.13	43.79	1,221.98	4,630.10	4,173.52	4,139.36	34.16	122.185	
3,900.00	3,729.43	4,313.67	4,198.34	19.89	22.30	43.92	1,224.33	4,624.48	4,127.58	4,092.68	34.90	118.271	
4,000.00	3,819.70	4,337.00	4,221.41	20.69	22.40	44.00	1,225.66	4,621.22	4,082.83	4,047.22	35.61	114.660	
4,100.00	3,909.98	4,389.82	4,273.72	21.48	22.61	44.19	1,228.45	4,614.53	4,039.12	4,002.72	36.40	110.966	
4,200.00	4,000.25	4,430.00	4,313.61	22.28	22.77	44.34	1,230.41	4,610.05	3,996.65	3,959.48	37.16	107.541	
4,300.00	4,090.52	4,488.50	4,371.76	23.08	22.99	44.58	1,232.87	4,604.15	3,955.16	3,917.18	37.98	104.145	
4,400.00	4,180.79	4,543.31	4,426.29	23.88	23.19	44.81	1,234.68	4,599.05	3,914.45	3,875.66	38.79	100.923	
4,500.00	4,271.06	4,590.39	4,473.20	24.69	23.35	45.01	1,236.11	4,595.17	3,874.76	3,835.19	39.58	97.899	
4,600.00	4,361.34	4,637.80	4,520.46	25.49	23.50	45.21	1,237.46	4,591.78	3,836.19	3,795.81	40.38	95.011	
4,700.00	4,451.61	4,685.31	4,567.88	26.30	23.65	45.43	1,238.42	4,588.94	3,798.74	3,757.57	41.18	92.255	
4,800.00	4,541.88	4,738.76	4,621.27	27.11	23.81	45.69	1,238.94	4,586.37	3,762.42	3,720.43	41.99	89.597	
4,900.00	4,632.15	4,804.00	4,686.45	27.92	24.00	46.01	1,238.79	4,583.85	3,727.05	3,684.21	42.84	86.996	
5,000.00	4,722.43	4,861.61	4,744.03	28.74	24.15	46.31	1,238.46	4,582.08	3,692.56	3,648.89	43.68	84.544	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 109-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,917.36	4,799.77	29.55	24.30	46.60	1,238.45	4,580.71	3,658.97	3,614.46	44.51	82.204	
5,200.00	4,902.97	4,963.13	4,845.53	30.37	24.41	46.84	1,238.45	4,580.12	3,626.63	3,581.31	45.32	80.019	
5,300.00	4,993.24	5,028.88	4,911.28	31.18	24.57	47.18	1,238.36	4,580.05	3,595.53	3,549.34	46.19	77.841	
5,400.00	5,083.51	5,133.74	5,016.14	32.00	24.82	47.74	1,238.22	4,579.91	3,564.73	3,517.55	47.18	75.562	
5,500.00	5,173.79	5,242.28	5,124.69	32.82	25.09	48.34	1,238.13	4,579.14	3,533.65	3,485.46	48.19	73.325	
5,600.00	5,264.06	5,332.19	5,214.59	33.63	25.33	48.83	1,238.00	4,578.26	3,502.60	3,453.43	49.17	71.236	
5,700.00	5,354.33	5,424.04	5,306.43	34.45	25.57	49.35	1,237.99	4,577.42	3,471.88	3,421.72	50.16	69.211	
5,800.00	5,444.60	5,523.00	5,405.39	35.27	25.83	49.92	1,237.90	4,576.33	3,441.27	3,390.09	51.19	67.227	
5,900.00	5,534.88	5,631.66	5,514.03	36.09	26.13	50.56	1,237.29	4,574.71	3,410.61	3,358.36	52.25	65.274	
6,000.00	5,625.15	5,737.33	5,619.68	36.91	26.41	51.20	1,236.34	4,572.55	3,379.75	3,326.44	53.31	63.393	
6,100.00	5,715.42	5,826.32	5,708.64	37.74	26.66	51.75	1,235.55	4,570.53	3,349.00	3,294.66	54.35	61.624	
6,200.00	5,805.69	5,917.12	5,799.41	38.56	26.91	52.32	1,234.62	4,568.45	3,318.57	3,263.17	55.39	59.910	
6,300.00	5,895.96	5,991.93	5,874.20	39.38	27.12	52.80	1,233.72	4,566.85	3,288.62	3,232.22	56.41	58.302	
6,400.00	5,986.24	6,076.51	5,958.76	40.20	27.35	53.35	1,232.70	4,565.38	3,259.37	3,201.91	57.46	56.726	
6,500.00	6,076.51	6,165.74	6,047.97	41.03	27.60	53.94	1,231.77	4,563.82	3,230.47	3,171.93	58.54	55.189	
6,600.00	6,166.78	6,256.57	6,138.79	41.85	27.85	54.54	1,231.32	4,562.29	3,201.95	3,142.32	59.63	53.697	
6,700.00	6,257.05	6,361.33	6,243.53	42.67	28.16	55.23	1,231.63	4,560.37	3,173.61	3,112.83	60.78	52.216	
6,800.00	6,347.33	6,447.90	6,330.07	43.50	28.42	55.79	1,232.91	4,558.54	3,145.27	3,083.38	61.89	50.823	
6,900.00	6,437.60	6,522.98	6,405.13	44.32	28.65	56.29	1,233.84	4,557.25	3,117.66	3,054.68	62.97	49.509	
7,000.00	6,527.87	6,598.19	6,480.34	45.15	28.87	56.79	1,234.53	4,556.31	3,090.85	3,026.78	64.07	48.245	
7,100.00	6,618.14	6,674.89	6,557.03	45.98	29.10	57.32	1,234.77	4,555.65	3,064.83	2,999.66	65.17	47.026	
7,200.00	6,708.41	6,759.71	6,641.85	46.80	29.34	57.93	1,234.69	4,555.13	3,039.48	2,973.17	66.31	45.835	
7,300.00	6,798.69	6,841.32	6,723.45	47.63	29.56	58.51	1,234.45	4,554.78	3,014.75	2,947.30	67.45	44.696	
7,400.00	6,888.96	6,929.37	6,811.51	48.45	29.81	59.16	1,233.93	4,554.56	2,990.64	2,922.02	68.61	43.587	
7,500.00	6,979.23	7,014.79	6,896.93	49.28	30.04	59.80	1,233.48	4,554.40	2,967.01	2,897.24	69.78	42.521	
7,600.00	7,069.50	7,102.56	6,984.69	50.11	30.28	60.46	1,232.94	4,554.37	2,944.00	2,873.05	70.96	41.491	
7,692.09	7,152.63	7,180.83	7,062.96	50.87	30.49	61.05	1,232.62	4,554.41	2,923.26	2,851.22	72.04	40.579	
7,700.00	7,159.79	7,187.12	7,069.25	50.93	30.50	59.71	1,232.59	4,554.43	2,921.49	2,849.36	72.13	40.503	
7,750.00	7,205.70	7,227.46	7,109.59	51.32	30.61	49.75	1,232.39	4,554.55	2,909.72	2,837.05	72.67	40.043	
7,800.00	7,252.52	7,277.05	7,159.18	51.66	30.74	36.98	1,232.14	4,554.73	2,896.91	2,823.76	73.16	39.599	
7,850.00	7,299.89	7,329.78	7,211.91	51.96	30.89	21.51	1,231.94	4,554.85	2,882.99	2,809.42	73.58	39.183	
7,900.00	7,347.44	7,380.60	7,262.73	52.20	31.03	4.70	1,231.78	4,554.89	2,868.05	2,794.13	73.92	38.801	
7,950.00	7,394.83	7,431.20	7,313.33	52.39	31.17	-11.30	1,231.64	4,554.88	2,852.18	2,778.01	74.17	38.453	
8,000.00	7,441.68	7,481.20	7,363.33	52.53	31.31	-25.04	1,231.51	4,554.82	2,835.54	2,761.19	74.35	38.139	
8,050.00	7,487.65	7,530.23	7,412.36	52.62	31.45	-36.27	1,231.39	4,554.70	2,818.25	2,743.81	74.44	37.858	
8,100.00	7,532.37	7,573.36	7,455.49	52.67	31.57	-45.36	1,231.25	4,554.59	2,800.55	2,726.10	74.45	37.616	
8,150.00	7,575.52	7,615.98	7,498.11	52.67	31.69	-52.85	1,231.08	4,554.48	2,782.65	2,708.27	74.38	37.409	
8,200.00	7,616.76	7,649.62	7,531.75	52.63	31.79	-59.10	1,230.94	4,554.45	2,764.81	2,690.59	74.22	37.252	
8,250.00	7,655.77	7,682.36	7,564.49	52.55	31.88	-64.45	1,230.83	4,554.50	2,747.29	2,673.30	73.99	37.132	
8,300.00	7,692.27	7,713.40	7,595.53	52.44	31.97	-69.10	1,230.74	4,554.62	2,730.31	2,656.62	73.69	37.052	
8,350.00	7,725.97	7,743.00	7,625.12	52.29	32.05	-73.17	1,230.64	4,554.79	2,714.09	2,640.76	73.33	37.011	
8,400.00	7,756.62	7,769.99	7,652.12	52.12	32.12	-76.73	1,230.54	4,554.99	2,698.86	2,625.94	72.92	37.010	SF
8,450.00	7,783.98	7,794.19	7,676.31	51.92	32.19	-79.81	1,230.42	4,555.19	2,684.84	2,612.38	72.46	37.051	
8,500.00	7,807.85	7,819.37	7,701.49	51.70	32.26	-82.52	1,230.30	4,555.41	2,672.25	2,600.27	71.98	37.126	
8,550.00	7,828.05	7,841.48	7,723.60	51.45	32.32	-84.80	1,230.18	4,555.60	2,661.26	2,589.80	71.46	37.241	
8,600.00	7,844.41	7,859.46	7,741.58	51.20	32.37	-86.64	1,230.08	4,555.73	2,652.07	2,581.15	70.92	37.397	
8,650.00	7,856.82	7,873.18	7,755.30	50.93	32.40	-88.04	1,230.00	4,555.83	2,644.84	2,574.48	70.36	37.591	
8,700.00	7,865.18	7,882.54	7,764.66	50.65	32.43	-89.00	1,229.95	4,555.90	2,639.72	2,569.93	69.79	37.821	
8,750.00	7,869.43	7,887.44	7,769.56	50.36	32.44	-89.52	1,229.92	4,555.93	2,636.80	2,567.56	69.23	38.085	
8,776.25	7,870.00	7,888.23	7,770.35	50.21	32.44	-89.62	1,229.92	4,555.94	2,636.16	2,567.22	68.94	38.236	ES
8,800.00	7,870.00	7,888.38	7,770.49	50.08	32.44	-89.62	1,229.92	4,555.94	2,635.98	2,567.29	68.69	38.376	
8,808.84	7,870.00	7,888.43	7,770.55	50.03	32.44	-89.62	1,229.92	4,555.94	2,635.96	2,567.36	68.60	38.426	CC

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 109-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,889.00	7,771.12	49.53	32.45	-89.63	1,229.91	4,555.94	2,637.54	2,569.83	67.70	38.957	
9,000.00	7,870.00	7,889.62	7,771.74	49.01	32.45	-89.65	1,229.91	4,555.95	2,642.88	2,576.00	66.88	39.514	
9,100.00	7,870.00	7,890.25	7,772.36	48.52	32.45	-89.66	1,229.91	4,555.95	2,651.99	2,585.74	66.25	40.031	
9,200.00	7,870.00	7,890.87	7,772.99	48.06	32.45	-89.67	1,229.90	4,555.95	2,664.83	2,599.02	65.81	40.495	
9,300.00	7,870.00	7,891.50	7,773.62	47.63	32.45	-89.69	1,229.90	4,555.96	2,681.33	2,615.76	65.57	40.895	
9,400.00	7,870.00	7,892.13	7,774.24	47.22	32.45	-89.70	1,229.90	4,555.96	2,701.44	2,635.90	65.53	41.224	
9,500.00	7,870.00	7,892.75	7,774.87	46.83	32.46	-89.71	1,229.89	4,555.97	2,725.07	2,659.37	65.69	41.482	
9,600.00	7,870.00	7,893.38	7,775.50	46.48	32.46	-89.73	1,229.89	4,555.97	2,752.13	2,686.09	66.04	41.673	
9,700.00	7,870.00	7,894.02	7,776.13	46.14	32.46	-89.74	1,229.88	4,555.97	2,782.52	2,715.96	66.56	41.804	
9,800.00	7,870.00	7,894.65	7,776.77	45.83	32.46	-89.76	1,229.88	4,555.98	2,816.14	2,748.91	67.23	41.888	
9,900.00	7,870.00	7,895.28	7,777.40	45.54	32.46	-89.77	1,229.88	4,555.98	2,852.87	2,784.84	68.03	41.936	
10,000.00	7,870.00	7,895.92	7,778.04	45.27	32.47	-89.78	1,229.87	4,555.99	2,892.60	2,823.66	68.94	41.961	
10,100.00	7,870.00	7,896.55	7,778.67	45.03	32.47	-89.80	1,229.87	4,555.99	2,935.19	2,865.26	69.93	41.976	
10,200.00	7,870.00	7,897.19	7,779.31	44.82	32.47	-89.81	1,229.87	4,555.99	2,980.53	2,909.55	70.98	41.991	
10,300.00	7,870.00	7,897.83	7,779.95	44.66	32.47	-89.82	1,229.86	4,556.00	3,028.49	2,956.41	72.08	42.015	
10,400.00	7,870.00	7,898.47	7,780.59	44.56	32.47	-89.84	1,229.86	4,556.00	3,078.96	3,005.75	73.21	42.056	
10,500.00	7,870.00	7,899.11	7,781.23	44.58	32.47	-89.85	1,229.85	4,556.01	3,131.81	3,057.45	74.36	42.119	
10,600.00	7,870.00	7,899.75	7,781.87	44.82	32.48	-89.87	1,229.85	4,556.01	3,186.92	3,111.41	75.51	42.208	
10,700.00	7,870.00	7,900.39	7,782.51	45.36	32.48	-89.88	1,229.85	4,556.01	3,244.17	3,167.52	76.65	42.325	
10,800.00	7,870.00	7,901.04	7,783.15	46.15	32.48	-89.89	1,229.84	4,556.02	3,303.46	3,225.69	77.78	42.473	
10,900.00	7,870.00	7,901.68	7,783.80	47.09	32.48	-89.91	1,229.84	4,556.02	3,364.68	3,285.79	78.89	42.651	
11,000.00	7,870.00	7,902.33	7,784.45	48.13	32.48	-89.92	1,229.84	4,556.03	3,427.73	3,347.75	79.97	42.861	
11,100.00	7,870.00	7,902.97	7,785.09	49.22	32.48	-89.94	1,229.83	4,556.03	3,492.50	3,411.47	81.03	43.102	
11,200.00	7,870.00	7,903.62	7,785.74	50.37	32.49	-89.95	1,229.83	4,556.03	3,558.90	3,476.84	82.05	43.372	
11,300.00	7,870.00	7,904.27	7,786.39	51.55	32.49	-89.97	1,229.82	4,556.04	3,626.84	3,543.79	83.05	43.672	
11,400.00	7,870.00	7,904.92	7,787.04	52.76	32.49	-89.98	1,229.82	4,556.04	3,696.24	3,612.23	84.01	44.000	
11,500.00	7,870.00	7,905.58	7,787.70	54.00	32.49	-89.99	1,229.82	4,556.05	3,767.01	3,682.08	84.93	44.355	
11,600.00	7,870.00	7,906.23	7,788.35	55.27	32.49	-90.01	1,229.81	4,556.05	3,839.09	3,753.27	85.82	44.735	
11,700.00	7,870.00	7,906.01	7,788.13	56.56	32.49	-90.00	1,229.81	4,556.05	3,912.39	3,825.72	86.67	45.139	
11,800.00	7,870.00	7,906.68	7,788.79	57.88	32.49	-90.02	1,229.81	4,556.06	3,986.86	3,899.36	87.50	45.566	
11,900.00	7,870.00	7,907.34	7,789.46	59.21	32.50	-90.03	1,229.80	4,556.06	4,062.42	3,974.13	88.28	46.015	
12,000.00	7,870.00	7,908.01	7,790.13	60.57	32.50	-90.05	1,229.80	4,556.07	4,139.02	4,049.98	89.04	46.485	
12,100.00	7,870.00	7,908.69	7,790.81	61.94	32.50	-90.06	1,229.79	4,556.07	4,216.59	4,126.83	89.76	46.974	
12,200.00	7,870.00	7,909.37	7,791.49	63.33	32.50	-90.08	1,229.79	4,556.08	4,295.10	4,204.64	90.46	47.481	
12,300.00	7,870.00	7,910.05	7,792.17	64.74	32.50	-90.09	1,229.79	4,556.08	4,374.48	4,283.35	91.13	48.005	
12,400.00	7,870.00	7,910.74	7,792.86	66.16	32.51	-90.11	1,229.78	4,556.09	4,454.69	4,362.93	91.76	48.545	
12,500.00	7,870.00	7,911.44	7,793.56	67.59	32.51	-90.12	1,229.78	4,556.09	4,535.69	4,443.32	92.37	49.101	
12,600.00	7,870.00	7,912.14	7,794.26	69.04	32.51	-90.14	1,229.77	4,556.10	4,617.43	4,524.47	92.96	49.671	
12,700.00	7,870.00	7,912.84	7,794.96	70.51	32.51	-90.15	1,229.77	4,556.10	4,699.88	4,606.36	93.52	50.254	
12,800.00	7,870.00	7,913.55	7,795.67	71.98	32.51	-90.17	1,229.76	4,556.11	4,783.00	4,688.94	94.06	50.850	
12,900.00	7,870.00	7,914.27	7,796.39	73.47	32.52	-90.18	1,229.76	4,556.11	4,866.75	4,772.18	94.58	51.458	
13,000.00	7,870.00	7,914.99	7,797.11	74.96	32.52	-90.20	1,229.75	4,556.12	4,951.11	4,856.04	95.07	52.077	
13,100.00	7,870.00	7,915.72	7,797.83	76.47	32.52	-90.21	1,229.75	4,556.12	5,036.04	4,940.49	95.55	52.707	
13,200.00	7,870.00	7,916.45	7,798.57	77.99	32.52	-90.23	1,229.74	4,556.13	5,121.51	5,025.51	96.00	53.347	
13,300.00	7,870.00	7,917.18	7,799.30	79.51	32.52	-90.25	1,229.74	4,556.13	5,207.50	5,111.06	96.44	53.996	
13,400.00	7,870.00	7,917.93	7,800.05	81.05	32.53	-90.26	1,229.73	4,556.14	5,293.99	5,197.12	96.86	54.654	
13,500.00	7,870.00	7,918.68	7,800.79	82.59	32.53	-90.28	1,229.73	4,556.14	5,380.94	5,283.67	97.27	55.321	
13,600.00	7,870.00	7,919.43	7,801.55	84.14	32.53	-90.29	1,229.72	4,556.15	5,468.33	5,370.68	97.66	55.995	
13,700.00	7,870.00	7,920.19	7,802.31	85.70	32.53	-90.31	1,229.72	4,556.15	5,556.16	5,458.12	98.03	56.677	
13,800.00	7,870.00	7,920.95	7,803.07	87.26	32.53	-90.33	1,229.71	4,556.16	5,644.38	5,545.99	98.39	57.366	
13,900.00	7,870.00	7,921.73	7,803.84	88.83	32.54	-90.34	1,229.71	4,556.16	5,733.00	5,634.26	98.74	58.062	
14,000.00	7,870.00	7,922.50	7,804.62	90.41	32.54	-90.36	1,229.70	4,556.17	5,821.98	5,722.91	99.07	58.764	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 109-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,923.29	7,805.40	92.00	32.54	-90.38	1,229.70	4,556.17	5,911.31	5,811.92	99.40	59.472	
14,200.00	7,870.00	7,924.08	7,806.19	93.59	32.54	-90.40	1,229.69	4,556.18	6,000.99	5,901.28	99.71	60.186	
14,300.00	7,870.00	7,924.87	7,806.99	95.18	32.54	-90.41	1,229.69	4,556.19	6,090.98	5,990.97	100.01	60.905	
14,400.00	7,870.00	7,925.67	7,807.79	96.79	32.55	-90.43	1,229.68	4,556.19	6,181.28	6,080.98	100.30	61.630	
14,500.00	7,870.00	7,926.48	7,808.60	98.39	32.55	-90.45	1,229.68	4,556.20	6,271.87	6,171.29	100.58	62.359	
14,600.00	7,870.00	7,927.30	7,809.41	100.00	32.55	-90.47	1,229.67	4,556.20	6,362.75	6,261.90	100.85	63.092	
14,700.00	7,870.00	7,928.12	7,810.23	101.62	32.55	-90.48	1,229.66	4,556.21	6,453.89	6,352.78	101.11	63.830	
14,800.00	7,870.00	7,928.94	7,811.06	103.24	32.56	-90.50	1,229.66	4,556.22	6,545.30	6,443.93	101.36	64.573	
14,900.00	7,870.00	7,929.78	7,811.90	104.87	32.56	-90.52	1,229.65	4,556.22	6,636.95	6,535.34	101.61	65.319	
15,000.00	7,870.00	7,930.62	7,812.74	106.50	32.56	-90.54	1,229.65	4,556.23	6,728.84	6,626.99	101.85	66.068	
15,100.00	7,870.00	7,931.47	7,813.58	108.13	32.56	-90.56	1,229.64	4,556.23	6,820.96	6,718.88	102.08	66.822	
15,200.00	7,870.00	7,932.32	7,814.44	109.77	32.57	-90.57	1,229.63	4,556.24	6,913.29	6,810.99	102.30	67.578	
15,300.00	7,870.00	7,933.18	7,815.30	111.41	32.57	-90.59	1,229.63	4,556.25	7,005.84	6,903.32	102.52	68.338	
15,400.00	7,870.00	7,934.05	7,816.17	113.05	32.57	-90.61	1,229.62	4,556.25	7,098.59	6,995.86	102.73	69.101	
15,500.00	7,870.00	7,934.92	7,817.04	114.70	32.57	-90.63	1,229.62	4,556.26	7,191.53	7,088.60	102.93	69.866	
15,600.00	7,870.00	7,935.81	7,817.92	116.35	32.57	-90.65	1,229.61	4,556.27	7,284.66	7,181.53	103.13	70.635	
15,700.00	7,870.00	7,936.70	7,818.81	118.00	32.58	-90.67	1,229.60	4,556.27	7,377.97	7,274.65	103.32	71.406	
15,800.00	7,870.00	7,937.59	7,819.71	119.66	32.58	-90.69	1,229.60	4,556.28	7,471.46	7,367.94	103.51	72.179	
15,900.00	7,870.00	7,938.50	7,820.61	121.32	32.58	-90.71	1,229.59	4,556.29	7,565.11	7,461.41	103.70	72.955	
16,000.00	7,870.00	7,939.41	7,821.53	122.98	32.58	-90.73	1,229.58	4,556.29	7,658.92	7,555.04	103.87	73.733	
16,100.00	7,870.00	7,940.33	7,822.45	124.65	32.59	-90.75	1,229.58	4,556.30	7,752.88	7,648.83	104.05	74.512	
16,200.00	7,870.00	7,941.26	7,823.37	126.32	32.59	-90.77	1,229.57	4,556.31	7,847.00	7,742.78	104.22	75.294	
16,300.00	7,870.00	7,942.19	7,824.31	127.99	32.59	-90.79	1,229.56	4,556.31	7,941.25	7,836.87	104.38	76.078	
16,400.00	7,870.00	7,943.13	7,825.25	129.66	32.60	-90.81	1,229.55	4,556.32	8,035.65	7,931.11	104.54	76.864	
16,500.00	7,870.00	7,944.09	7,826.20	131.33	32.60	-90.83	1,229.55	4,556.33	8,130.18	8,025.48	104.70	77.651	
16,600.00	7,870.00	7,945.04	7,827.16	133.01	32.60	-90.85	1,229.54	4,556.33	8,224.84	8,119.98	104.86	78.440	
16,700.00	7,870.00	7,946.01	7,828.13	134.69	32.60	-90.87	1,229.53	4,556.34	8,319.62	8,214.62	105.01	79.230	
16,800.00	7,870.00	7,946.99	7,829.10	136.37	32.61	-90.89	1,229.52	4,556.35	8,414.53	8,309.38	105.15	80.022	
16,900.00	7,870.00	7,947.97	7,830.09	138.06	32.61	-90.91	1,229.52	4,556.36	8,509.55	8,404.25	105.30	80.815	
17,000.00	7,870.00	7,948.96	7,831.08	139.74	32.61	-90.94	1,229.51	4,556.36	8,604.68	8,499.25	105.44	81.609	
17,100.00	7,870.00	7,949.97	7,832.08	141.43	32.61	-90.96	1,229.50	4,556.37	8,699.93	8,594.35	105.58	82.404	
17,200.00	7,870.00	7,950.98	7,833.09	143.12	32.62	-90.98	1,229.49	4,556.38	8,795.28	8,689.57	105.71	83.201	
17,300.00	7,870.00	7,951.99	7,834.11	144.81	32.62	-91.00	1,229.49	4,556.39	8,890.73	8,784.88	105.84	83.999	
17,400.00	7,870.00	7,953.02	7,835.14	146.50	32.62	-91.02	1,229.48	4,556.40	8,986.28	8,880.30	105.97	84.797	
17,500.00	7,870.00	7,954.06	7,836.18	148.19	32.63	-91.05	1,229.47	4,556.40	9,081.92	8,975.82	106.10	85.597	
17,600.00	7,870.00	7,955.11	7,837.22	149.89	32.63	-91.07	1,229.46	4,556.41	9,177.66	9,071.44	106.23	86.397	
17,700.00	7,870.00	7,956.16	7,838.28	151.59	32.63	-91.09	1,229.45	4,556.42	9,273.49	9,167.14	106.35	87.199	
17,800.00	7,870.00	7,957.23	7,839.34	153.29	32.63	-91.12	1,229.44	4,556.43	9,369.41	9,262.94	106.47	88.000	
17,900.00	7,870.00	7,958.30	7,840.42	154.99	32.64	-91.14	1,229.44	4,556.44	9,465.41	9,358.82	106.59	88.803	
18,000.00	7,870.00	7,959.39	7,841.50	156.69	32.64	-91.16	1,229.43	4,556.44	9,561.49	9,454.78	106.71	89.607	
18,100.00	7,870.00	7,960.48	7,842.60	158.39	32.64	-91.19	1,229.42	4,556.45	9,657.65	9,550.83	106.82	90.410	
18,200.00	7,870.00	7,961.59	7,843.70	160.09	32.65	-91.21	1,229.41	4,556.46	9,753.89	9,646.95	106.93	91.215	
18,300.00	7,870.00	7,962.70	7,844.82	161.80	32.65	-91.23	1,229.40	4,556.47	9,850.20	9,743.16	107.04	92.020	
18,400.00	7,870.00	7,963.83	7,845.94	163.51	32.65	-91.26	1,229.39	4,556.48	9,946.59	9,839.43	107.15	92.825	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 79-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.15	750.30	5,442.81	5,494.89				
100.00	100.00	34.68	34.68	0.13	0.05	82.15	750.29	5,442.76	5,494.25	5,494.06	0.19	N/A	
200.00	200.00	156.27	156.26	0.49	0.40	82.15	750.12	5,442.01	5,493.60	5,492.71	0.89	6,183.083	
300.00	300.00	247.44	247.44	0.85	0.72	82.15	750.10	5,441.44	5,492.97	5,491.40	1.57	3,491.373	
400.00	400.00	353.69	353.68	1.21	1.10	82.15	750.21	5,440.81	5,492.40	5,490.09	2.31	2,375.636	
492.73	492.73	410.74	410.73	1.54	1.30	82.15	749.73	5,440.70	5,492.11	5,489.27	2.84	1,932.059	
500.00	500.00	415.27	415.26	1.57	1.32	82.15	749.64	5,440.71	5,492.11	5,489.23	2.88	1,904.057	
600.00	600.00	479.81	479.76	1.93	1.54	82.18	747.65	5,441.23	5,492.49	5,489.03	3.47	1,584.409	
700.00	700.00	534.00	533.87	2.29	1.73	82.21	744.86	5,442.13	5,493.52	5,489.50	4.01	1,369.215	
800.00	800.00	589.89	589.60	2.64	1.93	82.25	740.89	5,443.67	5,495.36	5,490.79	4.57	1,202.527	
900.00	900.00	646.47	645.89	3.00	2.13	82.31	735.73	5,445.99	5,498.15	5,493.02	5.13	1,071.044	
1,000.00	1,000.00	716.00	714.86	3.36	2.39	82.40	727.54	5,449.36	5,501.46	5,495.71	5.75	956.539	
1,100.00	1,100.00	763.09	761.39	3.72	2.58	82.47	720.89	5,452.13	5,505.57	5,499.27	6.30	874.525	
1,200.00	1,200.00	809.00	806.60	4.08	2.77	82.55	713.66	5,455.50	5,510.78	5,503.95	6.84	806.211	
1,300.00	1,300.00	853.28	850.08	4.44	2.96	82.63	706.14	5,459.24	5,517.00	5,509.62	7.38	747.700	
1,400.00	1,399.98	902.00	897.80	4.79	3.17	39.71	697.43	5,463.77	5,522.77	5,514.84	7.94	695.853	
1,500.00	1,499.84	963.86	958.23	5.15	3.45	39.81	685.81	5,470.07	5,526.69	5,518.13	8.56	645.447	
1,600.00	1,599.45	1,024.22	1,017.03	5.51	3.73	39.95	673.90	5,476.71	5,528.70	5,519.51	9.19	601.597	
1,700.00	1,698.70	1,093.01	1,083.69	5.87	4.07	40.17	659.00	5,484.83	5,528.77	5,518.90	9.87	559.988	
1,800.00	1,797.47	1,225.56	1,212.00	6.24	4.75	40.66	629.62	5,500.44	5,526.33	5,515.44	10.90	507.223	
1,900.00	1,895.62	1,291.51	1,276.11	6.63	5.09	40.95	616.08	5,507.89	5,521.14	5,509.55	11.59	476.507	
2,000.00	1,993.06	1,347.00	1,329.98	7.04	5.38	41.25	604.59	5,514.60	5,514.21	5,501.98	12.23	450.706	
2,100.00	2,089.64	1,434.89	1,415.05	7.48	5.84	41.74	585.43	5,525.59	5,505.25	5,492.17	13.07	421.149	
2,200.00	2,185.27	1,506.87	1,484.43	7.94	6.25	42.21	568.61	5,534.81	5,494.17	5,480.32	13.86	396.494	
2,300.00	2,279.82	1,612.24	1,585.73	8.45	6.84	42.90	543.03	5,548.44	5,480.97	5,466.12	14.85	369.027	
2,400.00	2,373.17	1,729.83	1,699.20	8.99	7.50	43.71	515.77	5,562.86	5,465.05	5,449.12	15.93	343.036	
2,500.00	2,465.21	1,788.44	1,755.90	9.58	7.82	44.27	502.77	5,570.07	5,447.14	5,430.43	16.71	326.034	
2,574.08	2,532.50	1,851.33	1,816.73	10.04	8.17	44.81	488.95	5,578.01	5,432.77	5,415.37	17.41	312.112	
2,600.00	2,555.89	1,877.97	1,842.51	10.21	8.32	44.96	483.09	5,581.34	5,427.55	5,409.87	17.68	306.988	
2,700.00	2,646.16	2,004.43	1,965.11	10.88	9.01	45.66	456.07	5,596.55	5,407.27	5,388.41	18.87	286.598	
2,800.00	2,736.44	2,069.94	2,028.65	11.57	9.37	46.02	442.15	5,604.30	5,387.31	5,367.56	19.75	272.832	
2,900.00	2,826.71	2,184.34	2,139.28	12.27	10.01	46.67	416.36	5,617.82	5,367.82	5,346.90	20.92	256.609	
3,000.00	2,916.98	2,300.51	2,251.39	13.00	10.67	47.34	388.80	5,630.75	5,348.23	5,326.10	22.13	241.675	
3,100.00	3,007.25	2,432.48	2,379.34	13.73	11.39	48.10	359.64	5,644.56	5,328.61	5,305.19	23.42	227.510	
3,200.00	3,097.52	2,528.59	2,472.97	14.48	11.90	48.63	340.10	5,653.97	5,308.81	5,284.29	24.52	216.527	
3,300.00	3,187.80	2,579.09	2,522.08	15.23	12.18	48.92	329.41	5,658.98	5,289.67	5,264.28	25.39	208.337	
3,400.00	3,278.07	2,615.56	2,557.47	15.99	12.37	49.13	321.55	5,662.92	5,271.75	5,245.55	26.20	201.219	
3,500.00	3,368.34	3,500.00	2,646.18	16.76	17.26	49.66	301.55	5,673.25	5,254.76	5,223.32	31.44	167.137	
3,600.00	3,458.61	2,848.59	2,783.45	17.54	13.66	50.49	270.43	5,687.84	5,237.32	5,208.60	28.72	182.362	
3,700.00	3,548.89	2,912.57	2,845.39	18.32	14.01	50.87	255.79	5,694.33	5,220.45	5,190.73	29.72	175.677	
3,800.00	3,639.16	3,001.13	2,931.05	19.10	14.51	51.40	235.24	5,703.41	5,204.24	5,173.38	30.86	168.653	
3,900.00	3,729.43	3,056.81	2,984.97	19.89	14.82	51.74	222.61	5,709.17	5,188.64	5,156.82	31.82	163.046	
4,000.00	3,819.70	3,115.00	3,041.21	20.69	15.15	52.09	209.12	5,715.67	5,174.23	5,141.42	32.81	157.710	
4,100.00	3,909.98	3,167.76	3,092.15	21.48	15.45	52.41	196.88	5,721.84	5,160.80	5,127.03	33.77	152.831	
4,200.00	4,000.25	3,307.06	3,227.12	22.28	16.23	53.24	166.41	5,737.97	5,147.86	5,112.65	35.21	146.201	
4,300.00	4,090.52	3,404.81	3,321.92	23.08	16.77	53.83	145.03	5,748.45	5,134.64	5,098.22	36.43	140.964	
4,400.00	4,180.79	3,475.59	3,390.42	23.88	17.17	54.26	128.84	5,755.94	5,121.97	5,084.46	37.51	136.566	
4,500.00	4,271.06	3,529.64	3,442.68	24.69	17.48	54.59	116.40	5,761.81	5,110.15	5,071.66	38.49	132.752	
4,600.00	4,361.34	3,585.00	3,496.16	25.49	17.79	54.93	103.60	5,768.22	5,099.47	5,059.98	39.49	129.124	
4,700.00	4,451.61	3,718.19	3,625.40	26.30	18.52	55.73	75.38	5,783.72	5,089.14	5,048.22	40.92	124.378	
4,800.00	4,541.88	3,813.76	3,718.63	27.11	19.03	56.28	57.42	5,794.64	5,078.76	5,036.65	42.11	120.593	
4,900.00	4,632.15	3,891.18	3,794.08	27.92	19.43	56.74	42.50	5,803.41	5,068.91	5,025.69	43.22	117.282	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 79-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	3,960.00	3,861.11	28.74	19.80	57.14	29.04	5,811.36	5,059.81	5,015.53	44.28	114.256	
5,100.00	4,812.70	4,011.69	3,911.41	29.55	20.08	57.45	18.90	5,817.58	5,051.66	5,006.41	45.26	111.619	
5,200.00	4,902.97	4,076.46	3,974.38	30.37	20.43	57.83	6.17	5,825.81	5,044.59	4,998.28	46.30	108.945	
5,300.00	4,993.24	4,175.76	4,070.92	31.18	20.96	58.42	-13.45	5,838.21	5,037.89	4,990.35	47.54	105.961	
5,400.00	5,083.51	5,400.00	4,189.38	32.00	27.31	59.13	-36.10	5,853.46	5,031.60	4,977.70	53.90	93.352	
5,500.00	5,173.79	4,477.80	4,366.24	32.82	22.50	60.15	-65.80	5,873.60	5,023.68	4,973.15	50.53	99.419	
5,600.00	5,264.06	4,582.18	4,468.24	33.63	23.03	60.77	-85.27	5,884.17	5,016.37	4,964.58	51.79	96.860	
5,700.00	5,354.33	4,861.72	4,742.82	34.45	24.38	62.41	-132.87	5,905.42	5,006.01	4,952.10	53.91	92.861	
5,800.00	5,444.60	5,493.96	5,372.02	35.27	26.61	65.71	-183.71	5,923.11	4,989.28	4,932.45	56.82	87.804	
5,900.00	5,534.88	5,606.72	5,484.76	36.09	26.89	66.24	-184.19	5,922.33	4,969.64	4,911.74	57.89	85.842	
6,000.00	5,625.15	5,726.37	5,604.41	36.91	27.16	66.79	-183.50	5,921.50	4,950.11	4,891.16	58.96	83.963	
6,100.00	5,715.42	5,821.02	5,699.05	37.74	27.37	67.23	-182.75	5,920.42	4,930.40	4,870.42	59.98	82.195	
6,200.00	5,805.69	5,905.95	5,783.97	38.56	27.57	67.63	-182.26	5,919.43	4,911.03	4,850.03	61.01	80.499	
6,300.00	5,895.96	5,995.38	5,873.39	39.38	27.78	68.06	-182.06	5,918.36	4,892.05	4,830.00	62.05	78.844	
6,400.00	5,986.24	6,123.59	6,001.59	40.20	28.09	68.67	-181.49	5,916.48	4,873.11	4,809.95	63.16	77.157	
6,500.00	6,076.51	6,207.89	6,085.87	41.03	28.29	69.08	-180.80	5,915.03	4,854.13	4,789.94	64.20	75.613	
6,600.00	6,166.78	6,306.75	6,184.71	41.85	28.52	69.55	-179.76	5,913.33	4,835.41	4,770.15	65.26	74.091	
6,700.00	6,257.05	6,382.34	6,260.29	42.67	28.70	69.91	-178.84	5,912.14	4,817.07	4,750.78	66.30	72.660	
6,800.00	6,347.33	6,430.50	6,308.45	43.50	28.82	70.15	-178.24	5,911.64	4,799.53	4,732.24	67.29	71.329	
6,900.00	6,437.60	6,487.00	6,364.94	44.32	28.96	70.42	-177.84	5,911.63	4,783.22	4,714.93	68.29	70.039	
7,000.00	6,527.87	6,551.34	6,429.29	45.15	29.13	70.73	-177.70	5,911.93	4,767.83	4,698.50	69.33	68.772	
7,100.00	6,618.14	6,651.59	6,529.53	45.98	29.41	71.23	-177.91	5,912.14	4,752.77	4,682.32	70.45	67.463	
7,200.00	6,708.41	6,779.00	6,656.94	46.80	29.76	71.87	-178.23	5,911.71	4,737.63	4,666.00	71.63	66.136	
7,300.00	6,798.69	6,847.33	6,725.27	47.63	29.95	72.22	-178.31	5,911.42	4,722.70	4,650.01	72.69	64.969	
7,400.00	6,888.96	6,919.25	6,797.19	48.45	30.15	72.58	-178.43	5,911.38	4,708.44	4,634.68	73.76	63.832	
7,500.00	6,979.23	7,001.07	6,879.01	49.28	30.38	73.00	-178.79	5,911.54	4,694.85	4,619.99	74.86	62.712	
7,600.00	7,069.50	7,101.37	6,979.30	50.11	30.68	73.51	-179.28	5,911.67	4,681.59	4,605.58	76.01	61.589	
7,692.09	7,152.63	7,185.21	7,063.14	50.87	30.92	73.94	-179.71	5,911.56	4,669.51	4,592.46	77.06	60.599	
7,700.00	7,159.79	7,191.45	7,069.38	50.93	30.94	72.67	-179.74	5,911.55	4,668.47	4,591.32	77.14	60.518	
7,750.00	7,205.70	7,231.46	7,109.40	51.32	31.06	63.11	-180.00	5,911.54	4,660.71	4,583.05	77.66	60.013	
7,800.00	7,252.52	7,285.84	7,163.77	51.66	31.21	50.69	-180.37	5,911.50	4,650.93	4,572.77	78.16	59.507	
7,850.00	7,299.89	7,342.54	7,220.47	51.96	31.38	35.53	-180.73	5,911.36	4,639.06	4,560.46	78.60	59.022	
7,900.00	7,347.44	7,385.21	7,263.14	52.20	31.51	18.98	-181.04	5,911.22	4,625.27	4,546.32	78.94	58.589	
7,950.00	7,394.83	7,430.49	7,308.42	52.39	31.64	3.19	-181.43	5,911.07	4,609.65	4,530.42	79.23	58.180	
8,000.00	7,441.68	7,475.31	7,353.24	52.53	31.77	-10.39	-181.87	5,910.92	4,592.33	4,512.88	79.45	57.798	
8,050.00	7,487.65	7,519.35	7,397.27	52.62	31.90	-21.52	-182.36	5,910.76	4,573.44	4,493.82	79.62	57.443	
8,100.00	7,532.37	7,555.30	7,433.22	52.67	32.01	-30.63	-182.84	5,910.64	4,553.16	4,473.45	79.70	57.126	
8,150.00	7,575.52	7,590.63	7,468.54	52.67	32.12	-38.26	-183.41	5,910.54	4,531.69	4,451.96	79.73	56.836	
8,200.00	7,616.76	7,629.22	7,507.12	52.63	32.24	-44.87	-184.11	5,910.47	4,509.22	4,429.50	79.72	56.565	
8,250.00	7,655.77	7,670.88	7,548.78	52.55	32.36	-50.80	-184.72	5,910.45	4,485.87	4,406.22	79.66	56.316	
8,300.00	7,692.27	7,709.69	7,587.59	52.44	32.48	-56.22	-185.11	5,910.50	4,461.88	4,382.34	79.54	56.098	
8,350.00	7,725.97	7,738.86	7,616.76	52.29	32.57	-61.17	-185.37	5,910.56	4,437.50	4,358.15	79.35	55.923	
8,400.00	7,756.62	7,766.30	7,644.20	52.12	32.66	-65.78	-185.62	5,910.65	4,413.00	4,333.89	79.11	55.780	
8,450.00	7,783.98	7,790.88	7,668.78	51.92	32.73	-70.05	-185.85	5,910.74	4,388.63	4,309.79	78.83	55.669	
8,500.00	7,807.85	7,818.44	7,696.33	51.70	32.82	-74.09	-186.10	5,910.85	4,364.61	4,286.09	78.53	55.582	
8,550.00	7,828.05	7,844.23	7,722.13	51.45	32.89	-77.81	-186.30	5,910.94	4,341.17	4,262.99	78.18	55.526	
8,600.00	7,844.41	7,865.10	7,743.00	51.20	32.96	-81.17	-186.44	5,910.99	4,318.57	4,240.77	77.80	55.507	
8,650.00	7,856.82	7,880.93	7,758.83	50.93	33.01	-84.14	-186.54	5,911.02	4,297.04	4,219.65	77.39	55.524	
8,700.00	7,865.18	7,891.64	7,769.54	50.65	33.04	-86.71	-186.59	5,911.04	4,276.81	4,199.86	76.95	55.576	
8,750.00	7,869.43	7,897.21	7,775.10	50.36	33.06	-88.86	-186.62	5,911.05	4,258.09	4,181.59	76.50	55.664	
8,776.25	7,870.00	7,898.07	7,775.96	50.21	33.06	-89.83	-186.62	5,911.05	4,248.92	4,172.67	76.25	55.724	
8,800.00	7,870.00	7,898.20	7,776.10	50.08	33.06	-89.83	-186.63	5,911.05	4,240.91	4,164.88	76.03	55.782	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 79-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,898.77	7,776.67	49.53	33.06	-89.84	-186.63	5,911.05	4,208.46	4,133.34	75.12	56.024	
9,000.00	7,870.00	7,899.34	7,777.23	49.01	33.06	-89.85	-186.63	5,911.05	4,178.16	4,103.89	74.27	56.257	
9,100.00	7,870.00	7,899.89	7,777.79	48.52	33.06	-89.85	-186.63	5,911.05	4,150.04	4,076.55	73.49	56.474	
9,200.00	7,870.00	7,900.44	7,778.34	48.06	33.07	-89.86	-186.64	5,911.05	4,124.16	4,051.38	72.78	56.666	
9,300.00	7,870.00	7,900.99	7,778.88	47.63	33.07	-89.87	-186.64	5,911.05	4,100.55	4,028.39	72.16	56.823	
9,400.00	7,870.00	7,901.53	7,779.42	47.22	33.07	-89.88	-186.64	5,911.05	4,079.26	4,007.61	71.65	56.936	
9,500.00	7,870.00	7,902.06	7,779.95	46.83	33.07	-89.88	-186.64	5,911.05	4,060.32	3,989.08	71.24	56.995	
9,600.00	7,870.00	7,902.58	7,780.48	46.48	33.07	-89.89	-186.65	5,911.06	4,043.77	3,972.81	70.95	56.993	
9,700.00	7,870.00	7,903.10	7,781.00	46.14	33.07	-89.90	-186.65	5,911.06	4,029.63	3,958.83	70.79	56.922	
9,800.00	7,870.00	7,903.62	7,781.51	45.83	33.08	-89.91	-186.65	5,911.06	4,017.93	3,947.16	70.76	56.779	
9,900.00	7,870.00	7,904.12	7,782.02	45.54	33.08	-89.91	-186.65	5,911.06	4,008.69	3,937.81	70.87	56.560	
10,000.00	7,870.00	7,904.62	7,782.52	45.27	33.08	-89.92	-186.65	5,911.06	4,001.93	3,930.80	71.12	56.267	
10,100.00	7,870.00	7,905.12	7,783.02	45.03	33.08	-89.93	-186.66	5,911.06	3,997.66	3,926.14	71.51	55.903	
10,200.00	7,870.00	7,905.61	7,783.51	44.82	33.08	-89.94	-186.66	5,911.06	3,995.88	3,923.85	72.03	55.475	
10,220.80	7,870.00	7,905.71	7,783.61	44.78	33.08	-89.94	-186.66	5,911.06	3,995.83	3,923.67	72.16	55.374	CC, ES
10,300.00	7,870.00	7,906.10	7,783.99	44.66	33.08	-89.94	-186.66	5,911.06	3,996.61	3,923.94	72.68	54.990	
10,400.00	7,870.00	7,906.58	7,784.47	44.56	33.09	-89.95	-186.66	5,911.06	3,999.85	3,926.40	73.45	54.458	
10,500.00	7,870.00	7,903.75	7,781.65	44.58	33.08	-89.91	-186.66	5,911.06	4,005.58	3,931.25	74.33	53.891	
10,600.00	7,870.00	7,904.25	7,782.14	44.82	33.08	-89.92	-186.66	5,911.06	4,013.79	3,938.48	75.31	53.298	
10,700.00	7,870.00	7,904.75	7,782.65	45.36	33.08	-89.92	-186.66	5,911.06	4,024.47	3,948.09	76.38	52.692	
10,800.00	7,870.00	7,905.26	7,783.15	46.15	33.08	-89.93	-186.67	5,911.07	4,037.59	3,960.07	77.52	52.082	
10,900.00	7,870.00	7,905.77	7,783.67	47.09	33.08	-89.94	-186.67	5,911.07	4,053.15	3,974.41	78.74	51.478	
11,000.00	7,870.00	7,906.29	7,784.18	48.13	33.08	-89.95	-186.67	5,911.07	4,071.10	3,991.10	80.00	50.888	
11,100.00	7,870.00	7,906.81	7,784.70	49.22	33.09	-89.95	-186.68	5,911.07	4,091.41	4,010.10	81.31	50.318	
11,200.00	7,870.00	7,907.33	7,785.22	50.37	33.09	-89.96	-186.68	5,911.07	4,114.06	4,031.41	82.65	49.774	
11,300.00	7,870.00	7,907.86	7,785.75	51.55	33.09	-89.97	-186.68	5,911.07	4,139.00	4,054.98	84.02	49.261	
11,400.00	7,870.00	7,908.39	7,786.29	52.76	33.09	-89.98	-186.68	5,911.07	4,166.19	4,080.79	85.40	48.783	
11,500.00	7,870.00	7,908.93	7,786.82	54.00	33.09	-89.98	-186.69	5,911.07	4,195.59	4,108.80	86.79	48.340	
11,600.00	7,870.00	7,909.47	7,787.37	55.27	33.09	-89.99	-186.69	5,911.07	4,227.16	4,138.97	88.18	47.937	
11,700.00	7,870.00	7,910.02	7,787.91	56.56	33.10	-90.00	-186.69	5,911.07	4,260.83	4,171.26	89.57	47.572	
11,800.00	7,870.00	7,910.57	7,788.46	57.88	33.10	-90.01	-186.70	5,911.08	4,296.57	4,205.63	90.94	47.247	
11,900.00	7,870.00	7,911.13	7,789.02	59.21	33.10	-90.01	-186.70	5,911.08	4,334.32	4,242.03	92.29	46.962	
12,000.00	7,870.00	7,911.69	7,789.58	60.57	33.10	-90.02	-186.70	5,911.08	4,374.03	4,280.40	93.63	46.716	
12,100.00	7,870.00	7,912.25	7,790.15	61.94	33.10	-90.03	-186.71	5,911.08	4,415.65	4,320.71	94.94	46.508	
12,200.00	7,870.00	7,912.82	7,790.72	63.33	33.10	-90.04	-186.71	5,911.08	4,459.13	4,362.90	96.23	46.338	
12,300.00	7,870.00	7,913.40	7,791.29	64.74	33.11	-90.05	-186.71	5,911.08	4,504.40	4,406.92	97.49	46.204	
12,400.00	7,870.00	7,913.98	7,791.87	66.16	33.11	-90.06	-186.72	5,911.08	4,551.43	4,452.71	98.72	46.106	
12,500.00	7,870.00	7,914.57	7,792.46	67.59	33.11	-90.06	-186.72	5,911.09	4,600.14	4,500.23	99.91	46.042	
12,600.00	7,870.00	7,915.16	7,793.05	69.04	33.11	-90.07	-186.73	5,911.09	4,650.50	4,549.42	101.07	46.011	SF
12,700.00	7,870.00	7,915.75	7,793.65	70.51	33.11	-90.08	-186.73	5,911.09	4,702.44	4,600.24	102.20	46.011	
12,800.00	7,870.00	7,916.36	7,794.25	71.98	33.12	-90.09	-186.73	5,911.09	4,755.92	4,652.62	103.30	46.041	
12,900.00	7,870.00	7,916.96	7,794.86	73.47	33.12	-90.10	-186.74	5,911.09	4,810.88	4,706.53	104.36	46.100	
13,000.00	7,870.00	7,917.58	7,795.47	74.96	33.12	-90.11	-186.74	5,911.09	4,867.28	4,761.90	105.38	46.187	
13,100.00	7,870.00	7,918.20	7,796.09	76.47	33.12	-90.12	-186.74	5,911.09	4,925.06	4,818.69	106.37	46.299	
13,200.00	7,870.00	7,918.82	7,796.71	77.99	33.12	-90.12	-186.75	5,911.10	4,984.18	4,876.85	107.33	46.437	
13,300.00	7,870.00	7,919.45	7,797.34	79.51	33.12	-90.13	-186.75	5,911.10	5,044.59	4,936.34	108.26	46.599	
13,400.00	7,870.00	7,920.08	7,797.98	81.05	33.13	-90.14	-186.76	5,911.10	5,106.24	4,997.10	109.15	46.784	
13,500.00	7,870.00	7,920.73	7,798.62	82.59	33.13	-90.15	-186.76	5,911.10	5,169.09	5,059.09	110.00	46.990	
13,600.00	7,870.00	7,921.37	7,799.27	84.14	33.13	-90.16	-186.76	5,911.10	5,233.10	5,122.27	110.83	47.217	
13,700.00	7,870.00	7,922.03	7,799.92	85.70	33.13	-90.17	-186.77	5,911.10	5,298.22	5,186.60	111.63	47.463	
13,800.00	7,870.00	7,922.69	7,800.58	87.26	33.13	-90.18	-186.77	5,911.11	5,364.42	5,252.03	112.39	47.729	
13,900.00	7,870.00	7,923.35	7,801.25	88.83	33.14	-90.19	-186.78	5,911.11	5,431.65	5,318.52	113.13	48.012	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 79-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,924.03	7,801.92	90.41	33.14	-90.20	-186.78	5,911.11	5,499.88	5,386.03	113.84	48.312	
14,100.00	7,870.00	7,924.70	7,802.60	92.00	33.14	-90.21	-186.79	5,911.11	5,569.06	5,454.54	114.52	48.628	
14,200.00	7,870.00	7,925.39	7,803.28	93.59	33.14	-90.22	-186.79	5,911.11	5,639.17	5,523.99	115.18	48.960	
14,300.00	7,870.00	7,926.08	7,803.98	95.18	33.14	-90.23	-186.79	5,911.11	5,710.17	5,594.36	115.81	49.306	
14,400.00	7,870.00	7,926.78	7,804.67	96.79	33.15	-90.24	-186.80	5,911.12	5,782.03	5,665.61	116.42	49.666	
14,500.00	7,870.00	7,927.49	7,805.38	98.39	33.15	-90.25	-186.80	5,911.12	5,854.72	5,737.71	117.00	50.040	
14,600.00	7,870.00	7,928.20	7,806.09	100.00	33.15	-90.26	-186.81	5,911.12	5,928.20	5,810.63	117.56	50.426	
14,700.00	7,870.00	7,928.92	7,806.81	101.62	33.15	-90.27	-186.81	5,911.12	6,002.44	5,884.34	118.10	50.825	
14,800.00	7,870.00	7,929.64	7,807.54	103.24	33.16	-90.28	-186.82	5,911.12	6,077.43	5,958.81	118.62	51.235	
14,900.00	7,870.00	7,930.38	7,808.27	104.87	33.16	-90.29	-186.82	5,911.13	6,153.12	6,034.01	119.12	51.656	
15,000.00	7,870.00	7,931.12	7,809.01	106.50	33.16	-90.30	-186.83	5,911.13	6,229.50	6,109.91	119.60	52.088	
15,100.00	7,870.00	7,931.87	7,809.76	108.13	33.16	-90.31	-186.83	5,911.13	6,306.55	6,186.49	120.06	52.529	
15,200.00	7,870.00	7,932.62	7,810.52	109.77	33.17	-90.32	-186.84	5,911.13	6,384.23	6,263.72	120.50	52.981	
15,300.00	7,870.00	7,933.39	7,811.28	111.41	33.17	-90.33	-186.84	5,911.14	6,462.52	6,341.59	120.93	53.441	
15,400.00	7,870.00	7,934.16	7,812.05	113.05	33.17	-90.34	-186.85	5,911.14	6,541.40	6,420.06	121.34	53.910	
15,500.00	7,870.00	7,934.94	7,812.83	114.70	33.17	-90.36	-186.86	5,911.14	6,620.86	6,499.12	121.73	54.388	
15,600.00	7,870.00	7,935.72	7,813.62	116.35	33.17	-90.37	-186.86	5,911.14	6,700.86	6,578.75	122.11	54.874	
15,700.00	7,870.00	7,936.52	7,814.41	118.00	33.18	-90.38	-186.87	5,911.14	6,781.40	6,658.92	122.48	55.367	
15,800.00	7,870.00	7,937.32	7,815.22	119.66	33.18	-90.39	-186.87	5,911.15	6,862.44	6,739.61	122.83	55.868	
15,900.00	7,870.00	7,938.14	7,816.03	121.32	33.18	-90.40	-186.88	5,911.15	6,943.99	6,820.81	123.17	56.376	
16,000.00	7,870.00	7,938.96	7,816.85	122.98	33.18	-90.41	-186.88	5,911.15	7,026.00	6,902.50	123.50	56.890	
16,100.00	7,870.00	7,939.79	7,817.68	124.65	33.19	-90.43	-186.89	5,911.16	7,108.48	6,984.67	123.82	57.411	
16,200.00	7,870.00	7,940.62	7,818.52	126.32	33.19	-90.44	-186.90	5,911.16	7,191.41	7,067.28	124.12	57.939	
16,300.00	7,870.00	7,941.47	7,819.36	127.99	33.19	-90.45	-186.90	5,911.16	7,274.76	7,150.34	124.41	58.472	
16,400.00	7,870.00	7,942.33	7,820.22	129.66	33.19	-90.46	-186.91	5,911.16	7,358.53	7,233.83	124.70	59.011	
16,500.00	7,870.00	7,943.19	7,821.09	131.33	33.20	-90.47	-186.91	5,911.17	7,442.69	7,317.72	124.97	59.555	
16,600.00	7,870.00	7,944.07	7,821.96	133.01	33.20	-90.49	-186.92	5,911.17	7,527.25	7,402.01	125.24	60.105	
16,700.00	7,870.00	7,944.95	7,822.84	134.69	33.20	-90.50	-186.93	5,911.17	7,612.18	7,486.69	125.49	60.659	
16,800.00	7,870.00	7,945.85	7,823.74	136.37	33.21	-90.51	-186.93	5,911.18	7,697.47	7,571.73	125.74	61.218	
16,900.00	7,870.00	7,946.75	7,824.64	138.06	33.21	-90.53	-186.94	5,911.18	7,783.11	7,657.14	125.98	61.783	
17,000.00	7,870.00	7,947.66	7,825.56	139.74	33.21	-90.54	-186.95	5,911.18	7,869.09	7,742.89	126.21	62.351	
17,100.00	7,870.00	7,948.59	7,826.48	141.43	33.21	-90.55	-186.96	5,911.18	7,955.40	7,828.97	126.43	62.924	
17,200.00	7,870.00	7,949.52	7,827.41	143.12	33.22	-90.57	-186.96	5,911.19	8,042.03	7,915.38	126.64	63.501	
17,300.00	7,870.00	7,950.47	7,828.36	144.81	33.22	-90.58	-186.97	5,911.19	8,128.96	8,002.10	126.85	64.081	
17,400.00	7,870.00	7,951.42	7,829.31	146.50	33.22	-90.59	-186.98	5,911.19	8,216.19	8,089.13	127.06	64.666	
17,500.00	7,870.00	7,952.39	7,830.28	148.19	33.23	-90.61	-186.98	5,911.20	8,303.70	8,176.45	127.25	65.254	
17,600.00	7,870.00	7,953.37	7,831.26	149.89	33.23	-90.62	-186.99	5,911.20	8,391.50	8,264.06	127.44	65.846	
17,700.00	7,870.00	7,954.35	7,832.25	151.59	33.23	-90.63	-187.00	5,911.21	8,479.57	8,351.94	127.63	66.441	
17,800.00	7,870.00	7,955.35	7,833.25	153.29	33.23	-90.65	-187.01	5,911.21	8,567.89	8,440.09	127.80	67.039	
17,900.00	7,870.00	7,956.37	7,834.26	154.99	33.24	-90.66	-187.02	5,911.21	8,656.48	8,528.50	127.98	67.641	
18,000.00	7,870.00	7,957.39	7,835.28	156.69	33.24	-90.68	-187.02	5,911.22	8,745.30	8,617.16	128.15	68.245	
18,100.00	7,870.00	7,958.43	7,836.32	158.39	33.24	-90.69	-187.03	5,911.22	8,834.37	8,706.06	128.31	68.852	
18,200.00	7,870.00	7,959.47	7,837.37	160.09	33.25	-90.71	-187.04	5,911.22	8,923.67	8,795.20	128.47	69.462	
18,300.00	7,870.00	7,960.54	7,838.43	161.80	33.25	-90.72	-187.05	5,911.23	9,013.19	8,884.57	128.62	70.075	
18,400.00	7,870.00	7,961.61	7,839.50	163.51	33.25	-90.74	-187.06	5,911.23	9,102.93	8,974.16	128.77	70.690	
18,455.45	7,870.00	7,962.21	7,840.10	164.45	33.26	-90.75	-187.06	5,911.24	9,152.79	9,023.93	128.85	71.032	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.07	761.24	5,462.40	5,515.82				
100.00	100.00	52.88	52.88	0.13	0.09	82.07	761.25	5,462.23	5,515.14	5,514.91	0.22	N/A	
200.00	200.00	177.15	177.14	0.49	0.36	82.06	761.45	5,460.63	5,513.80	5,512.94	0.86	6,444.896	
300.00	300.00	230.00	229.98	0.85	0.55	82.06	761.97	5,460.21	5,513.13	5,511.73	1.40	3,937.333	
400.00	400.00	327.80	327.75	1.21	0.90	82.03	764.37	5,459.66	5,512.92	5,510.81	2.11	2,618.124	
428.57	428.57	345.63	345.57	1.31	0.96	82.02	765.12	5,459.55	5,512.90	5,510.63	2.27	2,425.586	
500.00	500.00	395.10	394.95	1.57	1.14	81.99	767.94	5,459.25	5,513.04	5,510.33	2.71	2,036.360	
600.00	600.00	460.33	459.96	1.93	1.38	81.94	773.30	5,458.96	5,513.75	5,510.44	3.31	1,667.506	
700.00	700.00	1,108.37	1,095.76	2.29	4.26	80.71	886.31	5,417.78	5,510.63	5,504.11	6.52	844.958	
800.00	800.00	1,192.03	1,176.78	2.64	4.70	80.50	904.58	5,407.74	5,502.12	5,494.82	7.30	753.469	
900.00	900.00	1,277.00	1,259.36	3.00	5.13	80.31	922.00	5,397.82	5,493.84	5,485.75	8.09	679.457	
1,000.00	1,000.00	1,324.20	1,305.34	3.36	5.37	80.20	931.30	5,392.64	5,486.23	5,477.55	8.68	632.085	
1,100.00	1,100.00	1,371.00	1,350.95	3.72	5.61	80.10	940.70	5,387.99	5,479.68	5,470.41	9.27	590.978	
1,200.00	1,200.00	1,428.66	1,407.07	4.08	5.90	79.96	952.81	5,382.66	5,474.03	5,464.11	9.93	551.478	
1,300.00	1,300.00	1,538.94	1,513.90	4.44	6.49	79.68	978.18	5,372.51	5,468.90	5,458.03	10.86	503.445	
1,400.00	1,399.98	1,666.51	1,636.83	4.79	7.19	36.49	1,009.69	5,359.46	5,461.71	5,449.80	11.91	458.438	
1,500.00	1,499.84	1,732.58	1,700.69	5.15	7.55	36.45	1,025.33	5,352.90	5,451.98	5,439.35	12.63	431.750	
1,600.00	1,599.45	1,840.93	1,805.92	5.51	8.12	36.38	1,049.07	5,342.75	5,439.78	5,426.23	13.55	401.480	
1,700.00	1,698.70	1,929.33	1,892.14	5.87	8.57	36.43	1,066.83	5,334.70	5,424.77	5,410.42	14.35	378.022	
1,800.00	1,797.47	1,992.17	1,953.60	6.24	8.88	36.56	1,078.78	5,329.35	5,407.40	5,392.38	15.02	360.006	
1,900.00	1,895.62	2,100.83	2,059.57	6.63	9.44	36.68	1,100.97	5,320.30	5,387.75	5,371.82	15.93	338.127	
2,000.00	1,993.06	2,319.41	2,271.76	7.04	10.60	36.74	1,148.41	5,298.00	5,363.62	5,346.18	17.43	307.691	
2,100.00	2,089.64	2,400.00	2,350.41	7.48	11.01	37.03	1,163.75	5,289.41	5,336.09	5,317.87	18.21	292.994	
2,200.00	2,185.27	2,471.94	2,420.70	7.94	11.37	37.39	1,177.20	5,282.06	5,306.25	5,287.29	18.96	279.901	
2,300.00	2,279.82	2,532.34	2,479.59	8.45	11.68	37.79	1,189.25	5,276.14	5,274.37	5,254.70	19.67	268.189	
2,400.00	2,373.17	2,602.71	2,548.07	8.99	12.04	38.23	1,204.03	5,269.60	5,240.51	5,220.06	20.45	256.321	
2,500.00	2,465.21	2,756.80	2,697.81	9.58	12.86	38.75	1,237.00	5,254.26	5,203.52	5,181.86	21.66	240.192	
2,574.08	2,532.50	2,850.01	2,788.35	10.04	13.35	39.19	1,256.78	5,244.30	5,174.03	5,151.55	22.47	230.222	
2,600.00	2,555.89	2,882.28	2,819.64	10.21	13.52	39.21	1,263.83	5,240.71	5,163.39	5,140.64	22.76	226.883	
2,700.00	2,646.16	2,947.51	2,882.79	10.88	13.88	39.23	1,278.51	5,233.54	5,122.58	5,099.01	23.57	217.294	
2,800.00	2,736.44	3,006.26	2,939.52	11.57	14.21	39.24	1,292.40	5,227.21	5,082.21	5,057.83	24.38	208.448	
2,900.00	2,826.71	3,065.07	2,996.08	12.27	14.55	39.25	1,307.32	5,221.12	5,042.48	5,017.27	25.21	200.048	
3,000.00	2,916.98	3,138.11	3,066.22	13.00	14.97	39.24	1,326.35	5,213.82	5,003.19	4,977.07	26.13	191.497	
3,100.00	3,007.25	3,268.43	3,191.36	13.73	15.72	39.24	1,360.22	5,200.58	4,963.77	4,936.41	27.36	181.425	
3,200.00	3,097.52	3,369.31	3,288.15	14.48	16.31	39.24	1,386.47	5,189.69	4,923.75	4,895.30	28.45	173.090	
3,300.00	3,187.80	3,475.33	3,389.75	15.23	16.94	39.22	1,414.55	5,178.27	4,883.87	4,854.30	29.57	165.159	
3,400.00	3,278.07	3,591.73	3,501.04	15.99	17.63	39.20	1,445.84	5,164.64	4,843.13	4,812.37	30.76	157.447	
3,500.00	3,368.34	3,662.78	3,569.07	16.76	18.05	39.19	1,464.61	5,156.46	4,802.56	4,770.85	31.71	151.448	
3,600.00	3,458.61	3,730.10	3,634.00	17.54	18.44	39.20	1,480.90	5,149.37	4,762.46	4,729.82	32.64	145.902	
3,700.00	3,548.89	3,803.00	3,704.37	18.32	18.85	39.22	1,498.47	5,142.02	4,722.77	4,689.18	33.60	140.572	
3,800.00	3,639.16	3,947.98	3,843.91	19.10	19.67	39.23	1,534.59	5,126.49	4,682.60	4,647.69	34.91	134.146	
3,900.00	3,729.43	4,047.81	3,940.53	19.89	20.23	39.27	1,557.22	5,115.61	4,641.92	4,605.94	35.99	128.993	
4,000.00	3,819.70	4,125.65	4,016.00	20.69	20.64	39.31	1,574.33	5,107.24	4,601.28	4,564.32	36.96	124.501	
4,100.00	3,909.98	4,198.44	4,086.89	21.48	21.03	39.37	1,589.19	5,100.00	4,561.07	4,523.16	37.90	120.330	
4,200.00	4,000.25	4,338.07	4,223.11	22.28	21.74	39.49	1,616.51	5,086.07	4,520.81	4,481.70	39.11	115.594	
4,300.00	4,090.52	4,300.00	4,349.17	23.08	21.54	39.59	1,642.88	5,071.03	4,479.02	4,439.61	39.42	113.636	
4,400.00	4,180.79	4,519.44	4,399.45	23.88	22.69	39.63	1,653.36	5,065.09	4,437.52	4,396.36	41.16	107.817	
4,500.00	4,271.06	4,555.00	4,434.14	24.69	22.88	39.66	1,660.27	5,061.43	4,397.00	4,355.03	41.98	104.752	
4,600.00	4,361.34	4,596.79	4,475.06	25.49	23.08	39.71	1,667.89	5,057.74	4,357.58	4,314.78	42.80	101.805	
4,700.00	4,451.61	4,648.00	4,525.47	26.30	23.32	39.79	1,676.23	5,054.32	4,319.49	4,275.83	43.67	98.914	
4,800.00	4,541.88	4,758.97	4,635.16	27.11	23.79	40.00	1,691.51	5,047.50	4,281.77	4,237.07	44.70	95.787	
4,900.00	4,632.15	4,828.49	4,704.13	27.92	24.06	40.16	1,699.23	5,043.34	4,243.74	4,198.15	45.60	93.074	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 139-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,896.55	4,771.81	28.74	24.31	40.34	1,705.55	5,039.86	4,206.25	4,159.78	46.48	90.505	
5,100.00	4,812.70	4,981.88	4,856.79	29.55	24.61	40.59	1,712.26	5,036.10	4,169.24	4,121.85	47.39	87.974	
5,200.00	4,902.97	5,054.24	4,928.95	30.37	24.85	40.82	1,716.67	5,033.13	4,132.36	4,084.09	48.27	85.606	
5,300.00	4,993.24	5,116.00	4,990.61	31.18	25.05	41.03	1,719.58	5,031.32	4,096.34	4,047.21	49.13	83.382	
5,400.00	5,083.51	5,200.09	5,074.66	32.00	25.28	41.37	1,721.17	5,029.59	4,060.87	4,010.86	50.00	81.210	
5,500.00	5,173.79	5,269.71	5,144.27	32.82	25.44	41.68	1,720.29	5,028.58	4,025.69	3,974.84	50.84	79.177	
5,600.00	5,264.06	5,354.37	5,228.90	33.63	25.63	42.07	1,718.30	5,027.90	3,991.11	3,939.40	51.71	77.184	
5,700.00	5,354.33	5,486.81	5,361.29	34.45	25.93	42.71	1,715.26	5,026.12	3,956.32	3,903.67	52.65	75.145	
5,800.00	5,444.60	5,567.65	5,442.10	35.27	26.12	43.10	1,713.38	5,024.59	3,921.22	3,867.69	53.53	73.253	
5,900.00	5,534.88	5,640.19	5,514.62	36.09	26.29	43.45	1,711.95	5,023.41	3,886.62	3,832.21	54.41	71.433	
6,000.00	5,625.15	5,713.60	5,588.02	36.91	26.47	43.81	1,711.00	5,022.50	3,852.63	3,797.33	55.30	69.667	
6,100.00	5,715.42	5,794.11	5,668.52	37.74	26.66	44.20	1,710.23	5,021.75	3,819.19	3,762.97	56.21	67.940	
6,200.00	5,805.69	5,882.55	5,756.95	38.56	26.89	44.63	1,709.52	5,020.96	3,786.00	3,728.85	57.15	66.246	
6,300.00	5,895.96	5,956.79	5,831.19	39.38	27.07	45.00	1,709.17	5,020.47	3,753.29	3,695.21	58.07	64.628	
6,400.00	5,986.24	6,054.24	5,928.63	40.20	27.33	45.49	1,708.93	5,019.93	3,720.90	3,661.85	59.05	63.012	
6,500.00	6,076.51	6,135.87	6,010.27	41.03	27.54	45.90	1,708.93	5,019.47	3,688.75	3,628.74	60.01	61.466	
6,600.00	6,166.78	6,225.45	6,099.84	41.85	27.79	46.35	1,709.26	5,019.06	3,656.95	3,595.95	61.00	59.949	
6,700.00	6,257.05	6,305.30	6,179.69	42.67	28.01	46.75	1,709.71	5,018.77	3,625.49	3,563.51	61.98	58.493	
6,800.00	6,347.33	6,381.19	6,255.58	43.50	28.22	47.15	1,710.12	5,018.77	3,594.59	3,531.63	62.96	57.093	
6,900.00	6,437.60	6,467.89	6,342.28	44.32	28.45	47.61	1,710.11	5,019.12	3,564.26	3,500.30	63.96	55.723	
7,000.00	6,527.87	6,562.49	6,436.88	45.15	28.70	48.12	1,710.14	5,019.33	3,534.03	3,469.04	64.99	54.379	
7,100.00	6,618.14	6,659.41	6,533.80	45.98	28.96	48.65	1,710.00	5,019.55	3,504.08	3,438.05	66.03	53.069	
7,200.00	6,708.41	6,757.47	6,631.85	46.80	29.22	49.20	1,709.78	5,019.40	3,474.04	3,406.96	67.08	51.788	
7,300.00	6,798.69	6,849.99	6,724.38	47.63	29.48	49.73	1,709.69	5,019.23	3,444.27	3,376.13	68.14	50.549	
7,400.00	6,888.96	6,943.25	6,817.64	48.45	29.74	50.27	1,709.67	5,018.93	3,414.65	3,345.44	69.21	49.340	
7,500.00	6,979.23	7,033.32	6,907.71	49.28	29.99	50.80	1,709.60	5,018.62	3,385.31	3,315.03	70.28	48.169	
7,600.00	7,069.50	7,122.92	6,997.31	50.11	30.24	51.33	1,709.57	5,018.32	3,356.28	3,284.92	71.36	47.032	
7,692.09	7,152.63	7,209.01	7,083.39	50.87	30.48	51.85	1,709.71	5,018.04	3,329.82	3,257.45	72.38	46.007	
7,700.00	7,159.79	7,217.08	7,091.46	50.93	30.51	50.44	1,709.73	5,018.01	3,327.55	3,255.08	72.47	45.919	
7,750.00	7,205.70	7,268.79	7,143.18	51.32	30.66	40.12	1,709.89	5,017.74	3,312.87	3,239.89	72.98	45.393	
7,800.00	7,252.52	7,319.64	7,194.03	51.66	30.81	26.97	1,710.06	5,017.40	3,297.72	3,224.29	73.42	44.913	
7,850.00	7,299.89	7,371.05	7,245.43	51.96	30.96	11.20	1,710.19	5,016.99	3,282.19	3,208.40	73.79	44.480	
7,900.00	7,347.44	7,419.89	7,294.27	52.20	31.10	-5.82	1,710.35	5,016.57	3,266.40	3,192.33	74.07	44.098	
7,950.00	7,394.83	7,468.95	7,343.33	52.39	31.24	-21.91	1,710.56	5,016.11	3,250.48	3,176.20	74.27	43.764	
8,000.00	7,441.68	7,517.41	7,391.79	52.53	31.39	-35.63	1,710.82	5,015.64	3,234.56	3,160.17	74.40	43.478	
8,050.00	7,487.65	7,564.89	7,439.26	52.62	31.53	-46.71	1,711.12	5,015.15	3,218.81	3,144.37	74.44	43.239	
8,100.00	7,532.37	7,598.07	7,472.44	52.67	31.63	-55.47	1,711.29	5,014.89	3,203.51	3,129.12	74.39	43.062	
8,150.00	7,575.52	7,633.52	7,507.89	52.67	31.73	-62.51	1,711.44	5,014.68	3,188.85	3,114.57	74.28	42.930	
8,200.00	7,616.76	7,669.04	7,543.40	52.63	31.84	-68.27	1,711.55	5,014.55	3,174.99	3,100.89	74.10	42.846	
8,250.00	7,655.77	7,703.14	7,577.51	52.55	31.94	-73.04	1,711.66	5,014.47	3,162.11	3,088.24	73.86	42.810	SF
8,300.00	7,692.27	7,735.05	7,609.42	52.44	32.03	-77.03	1,711.77	5,014.45	3,150.39	3,076.82	73.57	42.822	
8,350.00	7,725.97	7,768.54	7,642.90	52.29	32.13	-80.43	1,711.87	5,014.45	3,140.00	3,066.77	73.23	42.878	
8,400.00	7,756.62	7,799.17	7,673.54	52.12	32.22	-83.26	1,711.92	5,014.44	3,131.09	3,058.24	72.85	42.982	
8,450.00	7,783.98	7,826.60	7,700.97	51.92	32.30	-85.60	1,711.94	5,014.44	3,123.83	3,051.40	72.43	43.131	
8,500.00	7,807.85	7,850.48	7,724.85	51.70	32.37	-87.46	1,711.94	5,014.44	3,118.39	3,046.41	71.98	43.323	
8,550.00	7,828.05	7,870.68	7,745.05	51.45	32.43	-88.88	1,711.94	5,014.44	3,114.89	3,043.38	71.51	43.557	
8,600.00	7,844.41	7,887.04	7,761.41	51.20	32.48	-89.86	1,711.94	5,014.44	3,113.44	3,042.41	71.04	43.829	ES
8,609.23	7,847.00	7,889.63	7,764.00	51.15	32.49	-90.00	1,711.94	5,014.44	3,113.41	3,042.46	70.95	43.883	CC
8,650.00	7,856.82	7,899.45	7,773.82	50.93	32.52	-90.43	1,711.94	5,014.44	3,114.12	3,043.56	70.56	44.135	
8,700.00	7,865.18	7,907.81	7,782.18	50.65	32.54	-90.58	1,711.94	5,014.44	3,116.97	3,046.88	70.09	44.472	
8,750.00	7,869.43	7,912.06	7,786.43	50.36	32.55	-90.31	1,711.94	5,014.44	3,121.99	3,052.35	69.63	44.836	
8,776.25	7,870.00	7,912.63	7,787.00	50.21	32.56	-90.00	1,711.94	5,014.44	3,125.48	3,056.08	69.40	45.036	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 139-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	7,912.63	7,787.00	50.08	32.56	-90.00	1,711.94	5,014.44	3,129.00	3,059.80	69.20	45.218	
8,900.00	7,870.00	7,912.63	7,787.00	49.53	32.56	-90.00	1,711.94	5,014.44	3,145.72	3,077.27	68.45	45.957	
9,000.00	7,870.00	7,912.63	7,787.00	49.01	32.56	-90.00	1,711.94	5,014.44	3,165.52	3,097.65	67.87	46.640	
9,100.00	7,870.00	7,912.63	7,787.00	48.52	32.56	-90.00	1,711.94	5,014.44	3,188.33	3,120.86	67.47	47.257	
9,200.00	7,870.00	7,912.63	7,787.00	48.06	32.56	-90.00	1,711.94	5,014.44	3,214.09	3,146.85	67.24	47.798	
9,300.00	7,870.00	7,912.63	7,787.00	47.63	32.56	-90.00	1,711.94	5,014.44	3,242.74	3,175.55	67.19	48.261	
9,400.00	7,870.00	7,912.63	7,787.00	47.22	32.56	-90.00	1,711.94	5,014.44	3,274.19	3,206.88	67.31	48.644	
9,500.00	7,870.00	7,912.63	7,787.00	46.83	32.56	-90.00	1,711.94	5,014.44	3,308.36	3,240.78	67.58	48.954	
9,600.00	7,870.00	7,912.63	7,787.00	46.48	32.56	-90.00	1,711.94	5,014.44	3,345.17	3,277.18	68.00	49.197	
9,700.00	7,870.00	7,912.63	7,787.00	46.14	32.56	-90.00	1,711.94	5,014.44	3,384.54	3,316.01	68.54	49.383	
9,800.00	7,870.00	7,912.63	7,787.00	45.83	32.56	-90.00	1,711.94	5,014.44	3,426.38	3,357.20	69.19	49.524	
9,900.00	7,870.00	7,912.63	7,787.00	45.54	32.56	-90.00	1,711.94	5,014.44	3,470.60	3,400.67	69.93	49.632	
10,000.00	7,870.00	7,912.63	7,787.00	45.27	32.56	-90.00	1,711.94	5,014.44	3,517.10	3,446.36	70.74	49.717	
10,100.00	7,870.00	7,912.63	7,787.00	45.03	32.56	-90.00	1,711.94	5,014.44	3,565.80	3,494.18	71.62	49.789	
10,200.00	7,870.00	7,912.63	7,787.00	44.82	32.56	-90.00	1,711.94	5,014.44	3,616.61	3,544.07	72.54	49.857	
10,300.00	7,870.00	7,912.63	7,787.00	44.66	32.56	-90.00	1,711.94	5,014.44	3,669.45	3,595.95	73.49	49.928	
10,400.00	7,870.00	7,912.63	7,787.00	44.56	32.56	-90.00	1,711.94	5,014.44	3,724.22	3,649.74	74.47	50.009	
10,500.00	7,870.00	7,912.63	7,787.00	44.58	32.56	-90.00	1,711.94	5,014.44	3,780.84	3,705.38	75.46	50.103	
10,600.00	7,870.00	7,912.63	7,787.00	44.82	32.56	-90.00	1,711.94	5,014.44	3,839.23	3,762.77	76.46	50.215	
10,700.00	7,870.00	7,912.63	7,787.00	45.36	32.56	-90.00	1,711.94	5,014.44	3,899.31	3,821.86	77.45	50.348	
10,800.00	7,870.00	7,912.63	7,787.00	46.15	32.56	-90.00	1,711.94	5,014.44	3,961.01	3,882.57	78.43	50.502	
10,900.00	7,870.00	7,912.63	7,787.00	47.09	32.56	-90.00	1,711.94	5,014.44	4,024.24	3,944.84	79.41	50.680	
11,000.00	7,870.00	7,912.63	7,787.00	48.13	32.56	-90.00	1,711.94	5,014.44	4,088.94	4,008.58	80.36	50.881	
11,100.00	7,870.00	7,912.63	7,787.00	49.22	32.56	-90.00	1,711.94	5,014.44	4,155.05	4,073.74	81.30	51.106	
11,200.00	7,870.00	7,912.63	7,787.00	50.37	32.56	-90.00	1,711.94	5,014.44	4,222.48	4,140.26	82.22	51.355	
11,300.00	7,870.00	7,912.63	7,787.00	51.55	32.56	-90.00	1,711.94	5,014.44	4,291.19	4,208.07	83.12	51.628	
11,400.00	7,870.00	7,912.63	7,787.00	52.76	32.56	-90.00	1,711.94	5,014.44	4,361.11	4,277.12	83.99	51.923	
11,500.00	7,870.00	7,912.63	7,787.00	54.00	32.56	-90.00	1,711.94	5,014.44	4,432.18	4,347.34	84.84	52.241	
11,600.00	7,870.00	7,912.63	7,787.00	55.27	32.56	-90.00	1,711.94	5,014.44	4,504.35	4,418.68	85.67	52.580	
11,700.00	7,870.00	7,912.63	7,787.00	56.56	32.56	-90.00	1,711.94	5,014.44	4,577.56	4,491.10	86.47	52.941	
11,800.00	7,870.00	7,912.63	7,787.00	57.88	32.56	-90.00	1,711.94	5,014.44	4,651.78	4,564.54	87.24	53.321	
11,900.00	7,870.00	7,912.63	7,787.00	59.21	32.56	-90.00	1,711.94	5,014.44	4,726.94	4,638.95	87.99	53.720	
12,000.00	7,870.00	7,912.63	7,787.00	60.57	32.56	-90.00	1,711.94	5,014.44	4,803.01	4,714.29	88.72	54.137	
12,100.00	7,870.00	7,912.63	7,787.00	61.94	32.56	-90.00	1,711.94	5,014.44	4,879.95	4,790.53	89.42	54.572	
12,200.00	7,870.00	7,912.63	7,787.00	63.33	32.56	-90.00	1,711.94	5,014.44	4,957.70	4,867.60	90.10	55.023	
12,300.00	7,870.00	7,912.63	7,787.00	64.74	32.56	-90.00	1,711.94	5,014.44	5,036.25	4,945.49	90.76	55.490	
12,400.00	7,870.00	7,912.63	7,787.00	66.16	32.56	-90.00	1,711.94	5,014.44	5,115.54	5,024.14	91.39	55.972	
12,500.00	7,870.00	7,912.63	7,787.00	67.59	32.56	-90.00	1,711.94	5,014.44	5,195.54	5,103.54	92.01	56.468	
12,600.00	7,870.00	7,912.63	7,787.00	69.04	32.56	-90.00	1,711.94	5,014.44	5,276.23	5,183.63	92.60	56.978	
12,700.00	7,870.00	7,912.63	7,787.00	70.51	32.56	-90.00	1,711.94	5,014.44	5,357.57	5,264.40	93.17	57.501	
12,800.00	7,870.00	7,912.63	7,787.00	71.98	32.56	-90.00	1,711.94	5,014.44	5,439.53	5,345.81	93.73	58.036	
12,900.00	7,870.00	7,912.63	7,787.00	73.47	32.56	-90.00	1,711.94	5,014.44	5,522.09	5,427.83	94.26	58.582	
13,000.00	7,870.00	7,912.63	7,787.00	74.96	32.56	-90.00	1,711.94	5,014.44	5,605.21	5,510.43	94.78	59.140	
13,100.00	7,870.00	7,912.63	7,787.00	76.47	32.56	-90.00	1,711.94	5,014.44	5,688.88	5,593.60	95.28	59.708	
13,200.00	7,870.00	7,912.63	7,787.00	77.99	32.56	-90.00	1,711.94	5,014.44	5,773.07	5,677.31	95.76	60.286	
13,300.00	7,870.00	7,912.63	7,787.00	79.51	32.56	-90.00	1,711.94	5,014.44	5,857.75	5,761.52	96.23	60.873	
13,400.00	7,870.00	7,912.63	7,787.00	81.05	32.56	-90.00	1,711.94	5,014.44	5,942.91	5,846.23	96.68	61.469	
13,500.00	7,870.00	7,912.63	7,787.00	82.59	32.56	-90.00	1,711.94	5,014.44	6,028.53	5,931.41	97.12	62.074	
13,600.00	7,870.00	7,912.63	7,787.00	84.14	32.56	-90.00	1,711.94	5,014.44	6,114.58	6,017.04	97.54	62.687	
13,700.00	7,870.00	7,912.63	7,787.00	85.70	32.56	-90.00	1,711.94	5,014.44	6,201.05	6,103.10	97.95	63.308	
13,800.00	7,870.00	7,912.63	7,787.00	87.26	32.56	-90.00	1,711.94	5,014.44	6,287.93	6,189.58	98.35	63.936	
13,900.00	7,870.00	7,912.63	7,787.00	88.83	32.56	-90.00	1,711.94	5,014.44	6,375.18	6,276.45	98.73	64.571	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 139-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,912.63	7,787.00	90.41	32.56	-90.00	1,711.94	5,014.44	6,462.81	6,363.71	99.10	65.213	
14,100.00	7,870.00	7,912.63	7,787.00	92.00	32.56	-90.00	1,711.94	5,014.44	6,550.79	6,451.33	99.46	65.861	
14,200.00	7,870.00	7,912.63	7,787.00	93.59	32.56	-90.00	1,711.94	5,014.44	6,639.11	6,539.30	99.81	66.515	
14,300.00	7,870.00	7,912.63	7,787.00	95.18	32.56	-90.00	1,711.94	5,014.44	6,727.76	6,627.61	100.15	67.175	
14,400.00	7,870.00	7,912.63	7,787.00	96.79	32.56	-90.00	1,711.94	5,014.44	6,816.72	6,716.24	100.48	67.840	
14,500.00	7,870.00	7,912.63	7,787.00	98.39	32.56	-90.00	1,711.94	5,014.44	6,905.99	6,805.18	100.80	68.510	
14,600.00	7,870.00	7,912.63	7,787.00	100.00	32.56	-90.00	1,711.94	5,014.44	6,995.54	6,894.43	101.11	69.186	
14,700.00	7,870.00	7,912.63	7,787.00	101.62	32.56	-90.00	1,711.94	5,014.44	7,085.37	6,983.96	101.41	69.866	
14,800.00	7,870.00	7,912.63	7,787.00	103.24	32.56	-90.00	1,711.94	5,014.44	7,175.48	7,073.77	101.71	70.551	
14,900.00	7,870.00	7,912.63	7,787.00	104.87	32.56	-90.00	1,711.94	5,014.44	7,265.84	7,163.85	101.99	71.240	
15,000.00	7,870.00	7,912.63	7,787.00	106.50	32.56	-90.00	1,711.94	5,014.44	7,356.45	7,254.18	102.27	71.933	
15,100.00	7,870.00	7,912.63	7,787.00	108.13	32.56	-90.00	1,711.94	5,014.44	7,447.30	7,344.77	102.54	72.630	
15,200.00	7,870.00	7,912.63	7,787.00	109.77	32.56	-90.00	1,711.94	5,014.44	7,538.39	7,435.59	102.80	73.331	
15,300.00	7,870.00	7,912.63	7,787.00	111.41	32.56	-90.00	1,711.94	5,014.44	7,629.69	7,526.64	103.06	74.035	
15,400.00	7,870.00	7,912.63	7,787.00	113.05	32.56	-90.00	1,711.94	5,014.44	7,721.22	7,617.91	103.30	74.743	
15,500.00	7,870.00	7,912.63	7,787.00	114.70	32.56	-90.00	1,711.94	5,014.44	7,812.95	7,709.40	103.55	75.454	
15,600.00	7,870.00	7,912.63	7,787.00	116.35	32.56	-90.00	1,711.94	5,014.44	7,904.88	7,801.09	103.78	76.168	
15,700.00	7,870.00	7,912.63	7,787.00	118.00	32.56	-90.00	1,711.94	5,014.44	7,997.00	7,892.99	104.01	76.885	
15,800.00	7,870.00	7,912.63	7,787.00	119.66	32.56	-90.00	1,711.94	5,014.44	8,089.31	7,985.07	104.24	77.605	
15,900.00	7,870.00	7,912.63	7,787.00	121.32	32.56	-90.00	1,711.94	5,014.44	8,181.80	8,077.35	104.46	78.328	
16,000.00	7,870.00	7,912.63	7,787.00	122.98	32.56	-90.00	1,711.94	5,014.44	8,274.47	8,169.80	104.67	79.053	
16,100.00	7,870.00	7,912.63	7,787.00	124.65	32.56	-90.00	1,711.94	5,014.44	8,367.31	8,262.43	104.88	79.781	
16,200.00	7,870.00	7,912.63	7,787.00	126.32	32.56	-90.00	1,711.94	5,014.44	8,460.30	8,355.22	105.08	80.511	
16,300.00	7,870.00	7,912.63	7,787.00	127.99	32.56	-90.00	1,711.94	5,014.44	8,553.46	8,448.18	105.28	81.243	
16,400.00	7,870.00	7,912.63	7,787.00	129.66	32.56	-90.00	1,711.94	5,014.44	8,646.77	8,541.29	105.48	81.977	
16,500.00	7,870.00	7,912.63	7,787.00	131.33	32.56	-90.00	1,711.94	5,014.44	8,740.23	8,634.56	105.67	82.714	
16,600.00	7,870.00	7,912.63	7,787.00	133.01	32.56	-90.00	1,711.94	5,014.44	8,833.83	8,727.97	105.85	83.452	
16,700.00	7,870.00	7,912.63	7,787.00	134.69	32.56	-90.00	1,711.94	5,014.44	8,927.57	8,821.53	106.04	84.193	
16,800.00	7,870.00	7,912.63	7,787.00	136.37	32.56	-90.00	1,711.94	5,014.44	9,021.44	8,915.23	106.22	84.935	
16,900.00	7,870.00	7,912.63	7,787.00	138.06	32.56	-90.00	1,711.94	5,014.44	9,115.45	9,009.06	106.39	85.679	
17,000.00	7,870.00	7,912.63	7,787.00	139.74	32.56	-90.00	1,711.94	5,014.44	9,209.58	9,103.02	106.56	86.424	
17,100.00	7,870.00	7,912.63	7,787.00	141.43	32.56	-90.00	1,711.94	5,014.44	9,303.83	9,197.10	106.73	87.171	
17,200.00	7,870.00	7,912.63	7,787.00	143.12	32.56	-90.00	1,711.94	5,014.44	9,398.20	9,291.31	106.90	87.919	
17,300.00	7,870.00	7,912.63	7,787.00	144.81	32.56	-90.00	1,711.94	5,014.44	9,492.69	9,385.63	107.06	88.669	
17,400.00	7,870.00	7,912.63	7,787.00	146.50	32.56	-90.00	1,711.94	5,014.44	9,587.29	9,480.07	107.22	89.420	
17,500.00	7,870.00	7,912.63	7,787.00	148.19	32.56	-90.00	1,711.94	5,014.44	9,682.00	9,574.63	107.37	90.173	
17,600.00	7,870.00	7,912.63	7,787.00	149.89	32.56	-90.00	1,711.94	5,014.44	9,776.81	9,669.29	107.52	90.926	
17,700.00	7,870.00	7,912.63	7,787.00	151.59	32.56	-90.00	1,711.94	5,014.44	9,871.73	9,764.05	107.67	91.681	
17,800.00	7,870.00	7,912.63	7,787.00	153.29	32.56	-90.00	1,711.94	5,014.44	9,966.74	9,858.92	107.82	92.437	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	81.95	775.81	5,487.60	5,542.79				
100.00	100.00	0.00	0.00	0.13	0.00	81.95	775.81	5,487.60	5,542.20	5,542.06	0.13	N/A	
200.00	200.00	65.66	65.66	0.49	0.11	81.95	776.13	5,487.86	5,542.71	5,542.11	0.60	9,225.688	
300.00	300.00	138.00	137.98	0.85	0.23	81.94	777.20	5,488.76	5,544.08	5,543.00	1.08	5,148.389	
400.00	400.00	138.00	137.98	1.21	0.23	81.94	777.20	5,488.76	5,546.40	5,544.96	1.44	3,856.794	
500.00	500.00	198.32	198.26	1.57	0.45	81.93	778.91	5,490.31	5,549.60	5,547.59	2.01	2,755.758	
600.00	600.00	229.00	228.89	1.93	0.56	81.91	780.17	5,491.51	5,554.13	5,551.65	2.48	2,236.225	
700.00	700.00	264.32	264.12	2.29	0.69	81.90	781.80	5,493.29	5,559.86	5,556.88	2.97	1,871.205	
800.00	800.00	320.00	319.61	2.64	0.90	81.88	784.56	5,497.08	5,566.99	5,563.46	3.53	1,576.577	
900.00	900.00	320.00	319.61	3.00	0.90	81.88	784.56	5,497.08	5,575.02	5,571.13	3.89	1,434.021	
1,000.00	1,000.00	367.84	367.20	3.36	1.08	81.86	787.17	5,501.15	5,584.31	5,579.89	4.42	1,263.609	
1,100.00	1,100.00	411.00	410.08	3.72	1.26	81.84	789.77	5,505.32	5,594.70	5,589.77	4.93	1,134.634	
1,200.00	1,200.00	445.35	444.16	4.08	1.40	81.82	792.11	5,508.97	5,606.15	5,600.74	5.41	1,035.827	
1,300.00	1,300.00	503.00	501.22	4.44	1.63	81.78	796.76	5,515.76	5,618.78	5,612.80	5.98	939.610	
1,400.00	1,399.98	503.00	501.22	4.79	1.63	38.68	796.76	5,515.76	5,631.05	5,624.73	6.32	890.643	
1,500.00	1,499.84	560.42	557.86	5.15	1.89	38.52	802.44	5,523.28	5,641.61	5,634.72	6.89	819.136	
1,600.00	1,599.45	594.00	590.87	5.51	2.03	38.39	806.32	5,528.02	5,650.61	5,643.25	7.36	767.977	
1,700.00	1,698.70	649.90	645.66	5.87	2.30	38.28	813.70	5,536.30	5,657.83	5,649.90	7.93	713.461	
1,800.00	1,797.47	685.00	679.95	6.24	2.46	38.21	818.92	5,541.70	5,663.24	5,654.83	8.42	672.707	
1,900.00	1,895.62	741.49	734.94	6.63	2.74	38.15	828.06	5,550.79	5,666.82	5,657.81	9.01	628.600	
2,000.00	1,993.06	792.10	784.03	7.04	3.00	38.12	836.87	5,559.42	5,668.67	5,659.07	9.60	590.675	
2,100.00	2,089.64	871.99	861.24	7.48	3.42	38.13	852.03	5,573.23	5,668.33	5,658.00	10.33	548.723	
2,200.00	2,185.27	983.40	968.51	7.94	4.03	38.16	875.47	5,592.08	5,665.23	5,653.98	11.25	503.709	
2,300.00	2,279.82	1,054.56	1,036.78	8.45	4.43	38.24	891.53	5,604.09	5,659.63	5,647.64	12.00	471.681	
2,400.00	2,373.17	1,273.71	1,246.87	8.99	5.69	38.39	942.77	5,639.60	5,651.11	5,637.58	13.53	417.672	
2,500.00	2,465.21	1,356.58	1,326.61	9.58	6.15	38.59	961.50	5,652.15	5,638.34	5,623.95	14.39	391.722	
2,574.08	2,532.50	1,414.94	1,382.69	10.04	6.49	38.77	974.93	5,661.12	5,627.35	5,612.32	15.04	374.230	
2,600.00	2,555.89	1,430.00	1,397.15	10.21	6.57	38.78	978.45	5,663.45	5,623.30	5,608.06	15.24	369.027	
2,700.00	2,646.16	1,501.43	1,465.60	10.88	6.99	38.82	995.50	5,674.66	5,607.99	5,591.89	16.10	348.381	
2,800.00	2,736.44	1,563.19	1,524.63	11.57	7.35	38.86	1,010.71	5,684.65	5,593.27	5,576.35	16.92	330.477	
2,900.00	2,826.71	1,625.55	1,584.11	12.27	7.73	38.89	1,026.20	5,695.15	5,579.25	5,561.48	17.77	313.959	
3,000.00	2,916.98	1,746.40	1,699.56	13.00	8.45	38.97	1,055.22	5,715.94	5,565.48	5,546.55	18.93	293.994	
3,100.00	3,007.25	3,100.00	1,897.35	13.73	15.83	39.18	1,097.05	5,749.88	5,550.42	5,524.63	25.79	215.196	
3,200.00	3,097.52	2,081.10	2,023.52	14.48	10.29	39.36	1,119.00	5,770.26	5,533.94	5,512.31	21.63	255.851	
3,300.00	3,187.80	2,147.73	2,088.53	15.23	10.63	39.47	1,128.82	5,781.08	5,517.73	5,495.24	22.49	245.363	
3,400.00	3,278.07	2,179.00	2,119.02	15.99	10.79	39.52	1,133.35	5,786.30	5,502.27	5,479.07	23.20	237.178	
3,500.00	3,368.34	2,232.24	2,170.83	16.76	11.07	39.61	1,141.22	5,795.69	5,487.74	5,463.73	24.02	228.502	
3,600.00	3,458.61	2,272.00	2,209.37	17.54	11.28	39.68	1,147.39	5,803.27	5,474.47	5,449.69	24.78	220.936	
3,700.00	3,548.89	2,311.91	2,247.96	18.32	11.50	39.74	1,153.75	5,811.26	5,462.28	5,436.72	25.55	213.781	
3,800.00	3,639.16	2,366.00	2,300.11	19.10	11.81	39.82	1,162.56	5,822.59	5,451.08	5,424.69	26.39	206.528	
3,900.00	3,729.43	2,444.97	2,376.08	19.89	12.26	39.94	1,175.87	5,839.51	5,440.54	5,413.17	27.37	198.808	
4,000.00	3,819.70	2,518.22	2,446.48	20.69	12.69	40.05	1,188.52	5,855.32	5,430.28	5,401.96	28.32	191.771	
4,100.00	3,909.98	4,100.00	2,616.26	21.48	21.74	40.31	1,218.69	5,893.24	5,420.16	5,383.96	36.20	149.725	
4,200.00	4,000.25	2,830.25	2,746.97	22.28	14.48	40.51	1,241.84	5,920.20	5,408.17	5,377.14	31.03	174.282	
4,300.00	4,090.52	2,947.20	2,859.72	23.08	15.15	40.67	1,262.87	5,943.06	5,396.07	5,363.85	32.21	167.515	
4,400.00	4,180.79	3,002.25	2,912.63	23.88	15.47	40.74	1,273.62	5,953.80	5,384.17	5,351.06	33.11	162.625	
4,500.00	4,271.06	3,139.10	3,043.94	24.69	16.28	40.90	1,301.56	5,980.37	5,372.29	5,337.88	34.42	156.101	
4,600.00	4,361.34	3,207.00	3,109.16	25.49	16.68	40.98	1,315.02	5,993.64	5,360.47	5,325.09	35.38	151.491	
4,700.00	4,451.61	3,319.23	3,217.09	26.30	17.33	41.13	1,336.28	6,015.87	5,348.86	5,312.29	36.57	146.263	
4,800.00	4,541.88	3,374.44	3,270.14	27.11	17.65	41.20	1,346.74	6,027.00	5,337.56	5,300.08	37.48	142.409	
4,900.00	4,632.15	3,468.07	3,359.96	27.92	18.21	41.32	1,364.96	6,046.18	5,326.75	5,288.16	38.59	138.048	
5,000.00	4,722.43	3,573.85	3,461.35	28.74	18.84	41.44	1,386.15	6,067.65	5,315.83	5,276.07	39.76	133.698	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	3,667.52	3,551.08	29.55	19.41	41.56	1,405.16	6,086.61	5,304.92	5,264.05	40.88	129.774	
5,200.00	4,902.97	3,821.57	3,699.24	30.37	20.31	41.75	1,434.97	6,116.47	5,292.77	5,250.48	42.29	125.156	
5,300.00	4,993.24	3,883.01	3,758.30	31.18	20.66	41.84	1,446.74	6,128.66	5,281.34	5,238.09	43.25	122.112	
5,400.00	5,083.51	3,970.65	3,842.42	32.00	21.18	41.95	1,463.82	6,146.34	5,270.34	5,226.00	44.34	118.853	
5,500.00	5,173.79	4,116.24	3,982.42	32.82	22.03	42.15	1,490.83	6,175.75	5,259.42	5,213.70	45.72	115.042	
5,600.00	5,264.06	4,198.12	4,061.37	33.63	22.51	42.27	1,505.61	6,191.65	5,247.61	5,200.83	46.78	112.167	
5,700.00	5,354.33	4,366.89	4,223.83	34.45	23.48	42.50	1,537.67	6,224.24	5,235.94	5,187.66	48.27	108.463	
5,800.00	5,444.60	4,447.89	4,301.77	35.27	23.95	42.60	1,553.77	6,239.31	5,223.49	5,174.14	49.35	105.845	
5,900.00	5,534.88	4,556.40	4,406.21	36.09	24.58	42.74	1,575.25	6,259.38	5,210.98	5,160.41	50.56	103.058	
6,000.00	5,625.15	6,000.00	4,611.96	36.91	32.68	42.99	1,619.36	6,296.87	5,197.86	5,139.60	58.26	89.216	
6,100.00	5,715.42	4,956.11	4,792.17	37.74	26.82	43.24	1,655.58	6,325.00	5,181.67	5,127.85	53.82	96.285	
6,200.00	5,805.69	5,276.80	5,105.60	38.56	28.40	43.76	1,709.58	6,365.10	5,162.42	5,106.60	55.82	92.475	
6,300.00	5,895.96	6,085.25	5,910.76	39.38	30.90	46.22	1,746.34	6,400.58	5,132.87	5,074.48	58.38	87.915	
6,400.00	5,986.24	6,180.50	6,005.99	40.20	31.11	46.57	1,746.79	6,398.65	5,099.66	5,040.27	59.39	85.867	
6,500.00	6,076.51	6,266.19	6,091.66	41.03	31.30	46.88	1,747.10	6,396.92	5,066.62	5,006.23	60.39	83.894	
6,600.00	6,166.78	6,364.10	6,189.56	41.85	31.52	47.25	1,747.10	6,394.99	5,033.78	4,972.36	61.41	81.965	
6,700.00	6,257.05	6,448.23	6,273.67	42.67	31.70	47.58	1,746.48	6,393.24	5,000.99	4,938.56	62.43	80.110	
6,800.00	6,347.33	6,517.05	6,342.47	43.50	31.85	47.85	1,745.86	6,392.01	4,968.64	4,905.20	63.43	78.329	
6,900.00	6,437.60	6,579.53	6,404.94	44.32	32.00	48.10	1,745.73	6,391.21	4,936.94	4,872.50	64.44	76.614	
7,000.00	6,527.87	6,674.23	6,499.63	45.15	32.22	48.47	1,746.05	6,390.19	4,905.64	4,840.15	65.49	74.903	
7,100.00	6,618.14	6,747.55	6,572.95	45.98	32.40	48.75	1,746.41	6,389.48	4,874.64	4,808.10	66.53	73.267	
7,200.00	6,708.41	6,823.16	6,648.56	46.80	32.59	49.05	1,746.73	6,389.01	4,844.11	4,776.53	67.58	71.680	
7,300.00	6,798.69	6,900.61	6,726.01	47.63	32.78	49.37	1,746.78	6,388.74	4,814.04	4,745.41	68.64	70.138	
7,400.00	6,888.96	6,980.98	6,806.38	48.45	32.97	49.70	1,746.56	6,388.67	4,784.39	4,714.69	69.70	68.641	
7,500.00	6,979.23	7,065.63	6,891.03	49.28	33.17	50.05	1,746.04	6,388.71	4,755.09	4,684.31	70.78	67.182	
7,600.00	7,069.50	7,151.22	6,976.61	50.11	33.38	50.42	1,745.17	6,388.84	4,726.09	4,654.22	71.87	65.763	
7,692.09	7,152.63	7,227.04	7,052.42	50.87	33.56	50.75	1,744.19	6,389.05	4,699.69	4,626.82	72.87	64.495	
7,700.00	7,159.79	7,233.57	7,058.95	50.93	33.58	49.33	1,744.11	6,389.07	4,697.43	4,624.47	72.95	64.389	
7,750.00	7,205.70	7,286.46	7,111.84	51.32	33.70	38.96	1,743.44	6,389.22	4,682.90	4,609.43	73.47	63.741	
7,800.00	7,252.52	7,340.57	7,165.95	51.66	33.84	25.79	1,742.85	6,389.29	4,667.97	4,594.07	73.90	63.162	
7,850.00	7,299.89	7,386.85	7,212.23	51.96	33.95	10.02	1,742.30	6,389.33	4,652.78	4,578.53	74.25	62.663	
7,900.00	7,347.44	7,433.37	7,258.74	52.20	34.06	-6.93	1,741.67	6,389.36	4,637.45	4,562.94	74.51	62.237	
7,950.00	7,394.83	7,475.94	7,301.30	52.39	34.16	-22.92	1,741.00	6,389.42	4,622.13	4,547.44	74.69	61.886	
8,000.00	7,441.68	7,518.14	7,343.50	52.53	34.27	-36.48	1,740.23	6,389.53	4,606.96	4,532.17	74.78	61.604	
8,050.00	7,487.65	7,557.54	7,382.89	52.62	34.36	-47.35	1,739.50	6,389.67	4,592.08	4,517.28	74.80	61.392	
8,100.00	7,532.37	7,596.12	7,421.46	52.67	34.46	-55.95	1,738.78	6,389.87	4,577.65	4,502.91	74.74	61.248	
8,150.00	7,575.52	7,635.01	7,460.35	52.67	34.55	-62.82	1,738.08	6,390.12	4,563.81	4,489.19	74.61	61.166	
8,200.00	7,616.76	7,672.97	7,498.30	52.63	34.65	-68.40	1,737.41	6,390.40	4,550.69	4,476.27	74.42	61.149	SF
8,250.00	7,655.77	7,702.00	7,527.32	52.55	34.72	-72.94	1,736.90	6,390.63	4,538.46	4,464.31	74.15	61.203	
8,300.00	7,692.27	7,734.01	7,559.33	52.44	34.80	-76.74	1,736.36	6,390.94	4,527.31	4,453.47	73.84	61.313	
8,350.00	7,725.97	7,758.59	7,583.90	52.29	34.86	-79.86	1,735.96	6,391.24	4,517.39	4,443.92	73.47	61.489	
8,400.00	7,756.62	7,781.01	7,606.32	52.12	34.92	-82.44	1,735.60	6,391.57	4,508.85	4,435.80	73.05	61.722	
8,450.00	7,783.98	7,803.71	7,629.01	51.92	34.98	-84.57	1,735.25	6,391.93	4,501.79	4,429.19	72.60	62.007	
8,500.00	7,807.85	7,830.38	7,655.67	51.70	35.05	-86.36	1,734.80	6,392.37	4,496.29	4,424.16	72.13	62.334	
8,550.00	7,828.05	7,853.23	7,678.52	51.45	35.11	-87.74	1,734.38	6,392.74	4,492.44	4,420.80	71.64	62.708	
8,600.00	7,844.41	7,872.08	7,697.36	51.20	35.16	-88.73	1,734.01	6,393.03	4,490.33	4,419.20	71.13	63.124	
8,633.27	7,853.11	7,882.31	7,707.59	51.02	35.18	-89.18	1,733.81	6,393.19	4,489.93	4,419.13	70.80	63.421	CC, ES
8,650.00	7,856.82	7,886.74	7,712.01	50.93	35.19	-89.34	1,733.71	6,393.26	4,490.03	4,419.41	70.62	63.578	
8,700.00	7,865.18	7,897.06	7,722.34	50.65	35.22	-89.59	1,733.49	6,393.42	4,491.58	4,421.46	70.11	64.063	
8,750.00	7,869.43	7,902.93	7,728.20	50.36	35.24	-89.47	1,733.36	6,393.51	4,494.98	4,425.38	69.61	64.575	
8,776.25	7,870.00	7,901.89	7,727.16	50.21	35.23	-89.23	1,733.39	6,393.49	4,497.52	4,428.17	69.35	64.855	
8,800.00	7,870.00	7,902.34	7,727.62	50.08	35.23	-89.24	1,733.38	6,393.50	4,500.10	4,430.98	69.12	65.108	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 138-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,904.27	7,729.54	49.53	35.24	-89.26	1,733.34	6,393.53	4,512.32	4,444.09	68.24	66.127	
9,000.00	7,870.00	7,906.18	7,731.45	49.01	35.24	-89.29	1,733.31	6,393.56	4,526.72	4,459.23	67.50	67.067	
9,100.00	7,870.00	7,908.07	7,733.34	48.52	35.25	-89.31	1,733.27	6,393.59	4,543.28	4,476.38	66.90	67.914	
9,200.00	7,870.00	7,909.96	7,735.23	48.06	35.25	-89.34	1,733.23	6,393.62	4,561.97	4,495.52	66.45	68.654	
9,300.00	7,870.00	7,911.83	7,737.10	47.63	35.26	-89.36	1,733.19	6,393.65	4,582.76	4,516.61	66.15	69.279	
9,400.00	7,870.00	7,913.70	7,738.96	47.22	35.26	-89.38	1,733.15	6,393.68	4,605.63	4,539.63	66.00	69.784	
9,500.00	7,870.00	7,915.55	7,740.81	46.83	35.27	-89.41	1,733.11	6,393.71	4,630.54	4,564.55	65.99	70.168	
9,600.00	7,870.00	7,917.38	7,742.65	46.48	35.27	-89.43	1,733.08	6,393.73	4,657.47	4,591.35	66.13	70.434	
9,700.00	7,870.00	7,919.21	7,744.48	46.14	35.28	-89.46	1,733.04	6,393.76	4,686.38	4,619.99	66.39	70.590	
9,800.00	7,870.00	7,921.03	7,746.29	45.83	35.28	-89.48	1,733.00	6,393.79	4,717.23	4,650.45	66.77	70.644	
9,900.00	7,870.00	7,922.83	7,748.10	45.54	35.29	-89.50	1,732.97	6,393.82	4,749.98	4,682.71	67.27	70.610	
10,000.00	7,870.00	7,924.63	7,749.89	45.27	35.29	-89.52	1,732.93	6,393.85	4,784.60	4,716.74	67.87	70.499	
10,100.00	7,870.00	7,926.41	7,751.67	45.03	35.30	-89.55	1,732.90	6,393.88	4,821.05	4,752.50	68.55	70.326	
10,200.00	7,870.00	7,928.18	7,753.44	44.82	35.30	-89.57	1,732.86	6,393.90	4,859.28	4,789.96	69.32	70.103	
10,300.00	7,870.00	7,929.94	7,755.21	44.66	35.31	-89.59	1,732.83	6,393.93	4,899.25	4,829.10	70.15	69.842	
10,400.00	7,870.00	7,931.69	7,756.96	44.56	35.31	-89.62	1,732.79	6,393.96	4,940.92	4,869.89	71.03	69.556	
10,500.00	7,870.00	7,933.43	7,758.69	44.58	35.31	-89.64	1,732.76	6,393.99	4,984.25	4,912.28	71.97	69.254	
10,600.00	7,870.00	7,935.16	7,760.42	44.82	35.32	-89.66	1,732.72	6,394.02	5,029.19	4,956.25	72.95	68.944	
10,700.00	7,870.00	7,936.88	7,762.14	45.36	35.32	-89.68	1,732.69	6,394.04	5,075.71	5,001.76	73.95	68.635	
10,800.00	7,870.00	7,938.59	7,763.85	46.15	35.33	-89.70	1,732.66	6,394.07	5,123.76	5,048.77	74.98	68.332	
10,900.00	7,870.00	7,940.29	7,765.55	47.09	35.33	-89.73	1,732.62	6,394.10	5,173.29	5,097.25	76.03	68.040	
11,000.00	7,870.00	7,941.98	7,767.23	48.13	35.34	-89.75	1,732.59	6,394.12	5,224.26	5,147.17	77.10	67.763	
11,100.00	7,870.00	7,943.65	7,768.91	49.22	35.34	-89.77	1,732.56	6,394.15	5,276.64	5,198.47	78.17	67.506	
11,200.00	7,870.00	7,945.32	7,770.58	50.37	35.35	-89.79	1,732.52	6,394.18	5,330.38	5,251.14	79.24	67.269	
11,300.00	7,870.00	7,946.98	7,772.24	51.55	35.35	-89.81	1,732.49	6,394.21	5,385.44	5,305.12	80.31	67.054	
11,400.00	7,870.00	7,948.63	7,773.89	52.76	35.35	-89.83	1,732.46	6,394.23	5,441.78	5,360.39	81.39	66.864	
11,500.00	7,870.00	7,950.27	7,775.52	54.00	35.36	-89.85	1,732.43	6,394.26	5,499.36	5,416.90	82.45	66.699	
11,600.00	7,870.00	7,951.90	7,777.15	55.27	35.36	-89.87	1,732.40	6,394.28	5,558.14	5,474.63	83.51	66.559	
11,700.00	7,870.00	7,953.52	7,778.77	56.56	35.37	-89.89	1,732.37	6,394.31	5,618.08	5,533.53	84.55	66.444	
11,800.00	7,870.00	7,955.13	7,780.38	57.88	35.37	-89.92	1,732.34	6,394.34	5,679.16	5,593.57	85.59	66.354	
11,900.00	7,870.00	7,956.73	7,781.98	59.21	35.37	-89.94	1,732.31	6,394.36	5,741.32	5,654.71	86.61	66.290	
12,000.00	7,870.00	7,958.32	7,783.57	60.57	35.38	-89.96	1,732.28	6,394.39	5,804.55	5,716.93	87.62	66.250	
12,100.00	7,870.00	7,959.90	7,785.15	61.94	35.38	-89.98	1,732.25	6,394.41	5,868.79	5,780.18	88.61	66.234	
12,200.00	7,870.00	7,961.47	7,786.73	63.33	35.39	-90.00	1,732.22	6,394.44	5,934.02	5,844.44	89.58	66.242	
12,300.00	7,870.00	7,963.04	7,788.29	64.74	35.39	-90.02	1,732.19	6,394.47	6,000.21	5,909.68	90.54	66.273	
12,400.00	7,870.00	7,964.59	7,789.85	66.16	35.39	-90.04	1,732.16	6,394.49	6,067.33	5,975.85	91.48	66.326	
12,500.00	7,870.00	7,966.14	7,791.39	67.59	35.40	-90.06	1,732.13	6,394.52	6,135.34	6,042.94	92.40	66.400	
12,600.00	7,870.00	7,967.68	7,792.93	69.04	35.40	-90.08	1,732.10	6,394.54	6,204.22	6,110.92	93.30	66.495	
12,700.00	7,870.00	7,969.21	7,794.46	70.51	35.41	-90.10	1,732.07	6,394.57	6,273.94	6,179.75	94.19	66.610	
12,800.00	7,870.00	7,970.73	7,795.98	71.98	35.41	-90.11	1,732.05	6,394.59	6,344.46	6,249.40	95.06	66.744	
12,900.00	7,870.00	7,972.24	7,797.49	73.47	35.41	-90.13	1,732.02	6,394.62	6,415.77	6,319.86	95.91	66.897	
13,000.00	7,870.00	7,973.74	7,798.99	74.96	35.42	-90.15	1,731.99	6,394.64	6,487.83	6,391.10	96.74	67.067	
13,100.00	7,870.00	7,975.24	7,800.48	76.47	35.42	-90.17	1,731.96	6,394.66	6,560.63	6,463.08	97.55	67.255	
13,200.00	7,870.00	7,976.72	7,801.97	77.99	35.43	-90.19	1,731.94	6,394.69	6,634.14	6,535.79	98.34	67.459	
13,300.00	7,870.00	7,978.20	7,803.45	79.51	35.43	-90.21	1,731.91	6,394.71	6,708.33	6,609.21	99.12	67.678	
13,400.00	7,870.00	7,979.67	7,804.92	81.05	35.43	-90.23	1,731.88	6,394.74	6,783.18	6,683.30	99.88	67.913	
13,500.00	7,870.00	7,981.13	7,806.38	82.59	35.44	-90.25	1,731.86	6,394.76	6,858.67	6,758.05	100.62	68.163	
13,600.00	7,870.00	7,983.00	7,808.25	84.14	35.44	-90.27	1,731.82	6,394.79	6,934.79	6,833.44	101.35	68.426	
13,700.00	7,870.00	7,984.20	7,809.45	85.70	35.45	-90.29	1,731.80	6,394.81	7,011.50	6,909.44	102.06	68.702	
13,800.00	7,870.00	7,985.89	7,811.14	87.26	35.45	-90.31	1,731.77	6,394.84	7,088.79	6,986.04	102.75	68.991	
13,900.00	7,870.00	7,987.59	7,812.84	88.83	35.45	-90.33	1,731.74	6,394.87	7,166.65	7,063.22	103.43	69.293	
14,000.00	7,870.00	7,989.30	7,814.55	90.41	35.46	-90.35	1,731.71	6,394.90	7,245.04	7,140.96	104.09	69.606	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 138-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,991.02	7,816.27	92.00	35.46	-90.37	1,731.68	6,394.93	7,323.97	7,219.24	104.73	69.931	
14,200.00	7,870.00	7,992.75	7,818.00	93.59	35.47	-90.40	1,731.65	6,394.96	7,403.40	7,298.04	105.36	70.266	
14,300.00	7,870.00	7,994.49	7,819.74	95.18	35.47	-90.42	1,731.61	6,394.99	7,483.32	7,377.35	105.98	70.612	
14,400.00	7,870.00	7,996.24	7,821.49	96.79	35.48	-90.44	1,731.58	6,395.02	7,563.73	7,457.15	106.58	70.967	
14,500.00	7,870.00	7,998.00	7,823.25	98.39	35.48	-90.46	1,731.55	6,395.05	7,644.59	7,537.42	107.17	71.332	
14,600.00	7,870.00	7,999.77	7,825.01	100.00	35.49	-90.49	1,731.52	6,395.08	7,725.90	7,618.16	107.74	71.707	
14,700.00	7,870.00	8,001.55	7,826.79	101.62	35.49	-90.51	1,731.48	6,395.11	7,807.65	7,699.34	108.30	72.090	
14,800.00	7,870.00	8,003.34	7,828.58	103.24	35.50	-90.53	1,731.45	6,395.14	7,889.81	7,780.96	108.85	72.481	
14,900.00	7,870.00	8,005.14	7,830.38	104.87	35.50	-90.56	1,731.42	6,395.17	7,972.39	7,863.00	109.39	72.881	
15,000.00	7,870.00	8,006.96	7,832.19	106.50	35.51	-90.58	1,731.38	6,395.20	8,055.35	7,945.44	109.91	73.288	
15,100.00	7,870.00	8,008.78	7,834.01	108.13	35.51	-90.60	1,731.35	6,395.24	8,138.70	8,028.28	110.43	73.703	
15,200.00	7,870.00	8,010.61	7,835.85	109.77	35.51	-90.63	1,731.32	6,395.27	8,222.42	8,111.50	110.93	74.125	
15,300.00	7,870.00	8,012.45	7,837.69	111.41	35.52	-90.65	1,731.28	6,395.30	8,306.50	8,195.09	111.42	74.554	
15,400.00	7,870.00	8,014.30	7,839.54	113.05	35.52	-90.67	1,731.25	6,395.34	8,390.93	8,279.04	111.89	74.990	
15,500.00	7,870.00	8,016.17	7,841.40	114.70	35.53	-90.70	1,731.21	6,395.37	8,475.70	8,363.34	112.36	75.432	
15,600.00	7,870.00	8,018.04	7,843.28	116.35	35.53	-90.72	1,731.17	6,395.40	8,560.80	8,447.98	112.82	75.880	
15,700.00	7,870.00	8,019.93	7,845.16	118.00	35.54	-90.74	1,731.14	6,395.44	8,646.21	8,532.94	113.27	76.334	
15,800.00	7,870.00	8,021.83	7,847.06	119.66	35.54	-90.77	1,731.10	6,395.47	8,731.94	8,618.23	113.71	76.794	
15,900.00	7,870.00	8,023.74	7,848.97	121.32	35.55	-90.79	1,731.07	6,395.51	8,817.96	8,703.83	114.13	77.259	
16,000.00	7,870.00	8,025.66	7,850.89	122.98	35.55	-90.82	1,731.03	6,395.54	8,904.28	8,789.72	114.55	77.730	
16,100.00	7,870.00	8,027.59	7,852.82	124.65	35.56	-90.84	1,730.99	6,395.58	8,990.87	8,875.91	114.97	78.205	
16,200.00	7,870.00	8,029.53	7,854.76	126.32	35.56	-90.87	1,730.95	6,395.62	9,077.75	8,962.38	115.37	78.686	
16,300.00	7,870.00	8,031.49	7,856.72	127.99	35.57	-90.89	1,730.92	6,395.65	9,164.89	9,049.13	115.76	79.171	
16,400.00	7,870.00	8,033.45	7,858.68	129.66	35.57	-90.92	1,730.88	6,395.69	9,252.29	9,136.14	116.15	79.660	
16,500.00	7,870.00	8,035.43	7,860.66	131.33	35.58	-90.94	1,730.84	6,395.73	9,339.94	9,223.42	116.52	80.154	
16,600.00	7,870.00	8,037.42	7,862.65	133.01	35.59	-90.97	1,730.80	6,395.77	9,427.84	9,310.95	116.89	80.653	
16,700.00	7,870.00	8,039.42	7,864.65	134.69	35.59	-90.99	1,730.76	6,395.81	9,515.98	9,398.72	117.26	81.155	
16,800.00	7,870.00	8,041.44	7,866.66	136.37	35.60	-91.02	1,730.72	6,395.84	9,604.35	9,486.74	117.61	81.661	
16,900.00	7,870.00	8,043.47	7,868.69	138.06	35.60	-91.05	1,730.68	6,395.88	9,692.94	9,574.98	117.96	82.171	
17,000.00	7,870.00	8,045.50	7,870.73	139.74	35.61	-91.07	1,730.64	6,395.92	9,781.76	9,663.46	118.30	82.684	
17,100.00	7,870.00	8,047.56	7,872.78	141.43	35.61	-91.10	1,730.60	6,395.96	9,870.79	9,752.15	118.64	83.202	
17,200.00	7,870.00	8,049.62	7,874.84	143.12	35.62	-91.12	1,730.56	6,396.01	9,960.02	9,841.06	118.97	83.722	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 47-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.04	764.88	5,470.80	5,524.62				
100.00	100.00	36.82	36.82	0.13	0.05	82.04	764.91	5,470.73	5,523.98	5,523.80	0.18	N/A	
200.00	200.00	138.00	138.00	0.49	0.39	82.04	765.07	5,470.16	5,523.44	5,522.56	0.88	6,278.164	
269.02	269.02	187.03	187.02	0.74	0.56	82.04	764.82	5,470.03	5,523.24	5,521.94	1.30	4,257.356	
300.00	300.00	204.57	204.57	0.85	0.62	82.04	764.59	5,470.08	5,523.28	5,521.81	1.47	3,759.172	
400.00	400.00	229.00	228.99	1.21	0.70	82.05	764.15	5,470.25	5,524.08	5,522.16	1.91	2,886.503	
500.00	500.00	273.94	273.91	1.57	0.86	82.06	763.02	5,471.13	5,525.96	5,523.53	2.43	2,274.481	
600.00	600.00	320.00	319.90	1.93	1.02	82.08	761.49	5,473.03	5,529.30	5,526.36	2.95	1,876.398	
700.00	700.00	320.00	319.90	2.29	1.02	82.08	761.49	5,473.03	5,533.79	5,530.48	3.31	1,673.816	
800.00	800.00	367.44	367.21	2.64	1.20	82.10	759.42	5,475.96	5,539.48	5,535.65	3.83	1,444.966	
900.00	900.00	411.00	410.56	3.00	1.36	82.13	757.02	5,479.40	5,546.43	5,542.09	4.35	1,276.372	
1,000.00	1,000.00	438.72	438.11	3.36	1.46	82.16	755.25	5,481.94	5,554.49	5,549.69	4.80	1,156.178	
1,100.00	1,100.00	477.12	476.20	3.72	1.60	82.19	752.49	5,485.87	5,563.68	5,558.38	5.30	1,049.513	
1,200.00	1,200.00	502.00	500.85	4.08	1.70	82.21	750.51	5,488.67	5,574.01	5,568.26	5.75	969.982	
1,300.00	1,300.00	544.54	542.91	4.44	1.88	82.26	747.03	5,493.96	5,585.46	5,579.20	6.26	891.927	
1,400.00	1,399.98	593.00	590.73	4.79	2.08	39.23	743.16	5,500.82	5,596.89	5,590.09	6.80	823.549	
1,500.00	1,499.84	593.00	590.73	5.15	2.08	39.10	743.16	5,500.82	5,606.74	5,599.60	7.13	785.984	
1,600.00	1,599.45	641.32	638.27	5.51	2.29	39.07	739.28	5,508.51	5,615.04	5,607.37	7.67	732.304	
1,700.00	1,698.70	684.00	680.14	5.87	2.48	39.06	735.77	5,516.00	5,621.92	5,613.74	8.18	687.194	
1,800.00	1,797.47	713.55	709.08	6.24	2.62	39.06	733.45	5,521.49	5,627.20	5,618.55	8.64	650.938	
1,900.00	1,895.62	776.00	770.21	6.63	2.91	39.15	729.51	5,533.67	5,630.94	5,621.69	9.25	608.649	
2,000.00	1,993.06	802.02	795.65	7.04	3.03	39.18	728.11	5,538.96	5,632.82	5,623.11	9.72	579.766	
2,100.00	2,089.64	870.00	861.98	7.48	3.36	39.35	724.22	5,553.32	5,633.06	5,622.69	10.37	543.402	
2,200.00	2,185.27	922.19	912.83	7.94	3.62	39.52	721.25	5,564.67	5,631.29	5,620.32	10.97	513.229	
2,300.00	2,279.82	1,014.86	1,003.13	8.45	4.09	39.84	716.60	5,584.94	5,627.27	5,615.52	11.76	478.617	
2,400.00	2,373.17	1,116.53	1,102.28	8.99	4.60	40.24	712.13	5,607.01	5,620.63	5,608.02	12.61	445.762	
2,500.00	2,465.21	1,210.03	1,193.47	9.58	5.07	40.67	708.06	5,627.26	5,611.46	5,598.01	13.45	417.164	
2,574.08	2,532.50	1,267.23	1,249.21	10.04	5.37	40.98	704.95	5,639.74	5,603.15	5,589.10	14.04	398.955	
2,600.00	2,555.89	1,283.36	1,264.91	10.21	5.46	41.04	703.97	5,643.30	5,600.07	5,585.83	14.24	393.275	
2,700.00	2,646.16	1,347.57	1,327.32	10.88	5.80	41.29	699.58	5,657.73	5,588.66	5,573.65	15.01	372.289	
2,800.00	2,736.44	1,431.51	1,408.82	11.57	6.25	41.62	693.43	5,676.87	5,577.78	5,561.89	15.89	350.967	
2,900.00	2,826.71	1,491.60	1,467.12	12.27	6.58	41.85	689.12	5,690.78	5,567.48	5,550.80	16.68	333.742	
3,000.00	2,916.98	1,551.45	1,525.12	13.00	6.91	42.08	684.97	5,704.96	5,557.97	5,540.48	17.48	317.888	
3,100.00	3,007.25	1,620.00	1,591.43	13.73	7.29	42.35	680.06	5,721.62	5,549.26	5,530.92	18.34	302.604	
3,200.00	3,097.52	1,766.44	1,733.30	14.48	8.10	42.93	669.93	5,756.48	5,540.30	5,520.74	19.56	283.275	
3,300.00	3,187.80	1,853.39	1,817.63	15.23	8.58	43.26	664.24	5,776.89	5,531.34	5,510.83	20.52	269.621	
3,400.00	3,278.07	1,974.29	1,934.96	15.99	9.25	43.73	657.18	5,805.17	5,522.62	5,500.99	21.63	255.308	
3,500.00	3,368.34	2,072.47	2,030.42	16.76	9.78	44.09	652.50	5,827.63	5,513.62	5,490.97	22.65	243.443	
3,600.00	3,458.61	2,171.66	2,126.87	17.54	10.31	44.47	647.78	5,850.29	5,504.84	5,481.16	23.68	232.482	
3,700.00	3,548.89	2,253.28	2,206.18	18.32	10.76	44.78	642.97	5,868.96	5,496.30	5,471.66	24.64	223.026	
3,800.00	3,639.16	2,361.80	2,311.53	19.10	11.35	45.21	635.26	5,893.81	5,488.06	5,462.32	25.74	213.180	
3,900.00	3,729.43	3,900.00	2,416.56	19.89	19.74	45.65	627.60	5,918.05	5,479.60	5,446.86	32.74	167.369	
4,000.00	3,819.70	2,521.96	2,467.16	20.69	12.23	45.86	623.78	5,929.86	5,471.71	5,444.00	27.70	197.502	
4,100.00	3,909.98	2,594.15	2,537.15	21.48	12.63	46.15	618.72	5,946.82	5,464.76	5,436.11	28.66	190.693	
4,200.00	4,000.25	2,835.00	2,771.74	22.28	13.92	47.09	604.76	5,999.47	5,456.04	5,425.67	30.37	179.645	
4,300.00	4,090.52	2,887.23	2,822.75	23.08	14.20	47.30	601.64	6,010.22	5,447.13	5,415.88	31.25	174.335	
4,400.00	4,180.79	2,928.00	2,862.38	23.88	14.41	47.46	598.69	6,019.32	5,439.73	5,407.66	32.07	169.618	
4,500.00	4,271.06	2,983.29	2,916.03	24.69	14.72	47.69	594.74	6,032.09	5,433.40	5,400.44	32.97	164.811	
4,600.00	4,361.34	3,086.92	3,016.68	25.49	15.29	48.09	588.88	6,056.06	5,427.41	5,393.32	34.09	159.209	
4,700.00	4,451.61	3,186.50	3,113.46	26.30	15.83	48.48	583.40	6,078.89	5,421.45	5,386.25	35.20	154.028	
4,800.00	4,541.88	3,322.47	3,245.71	27.11	16.57	49.03	575.30	6,109.36	5,415.27	5,378.79	36.48	148.448	
4,900.00	4,632.15	3,389.19	3,310.65	27.92	16.93	49.29	571.90	6,124.28	5,409.27	5,371.83	37.44	144.465	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 47-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	3,456.84	3,376.43	28.74	17.30	49.55	568.42	6,139.73	5,403.96	5,365.54	38.42	140.665	
5,100.00	4,812.70	3,533.00	3,450.36	29.55	17.72	49.86	563.56	6,157.35	5,399.30	5,359.86	39.44	136.905	
5,200.00	4,902.97	3,668.20	3,581.56	30.37	18.47	50.42	553.33	6,188.35	5,394.91	5,354.16	40.75	132.385	
5,300.00	4,993.24	3,854.15	3,762.71	31.18	19.46	51.18	541.32	6,228.53	5,389.37	5,347.08	42.29	127.425	
5,400.00	5,083.51	3,950.84	3,857.17	32.00	19.96	51.56	536.71	6,248.70	5,383.21	5,339.79	43.42	123.988	
5,500.00	5,173.79	4,023.50	3,928.13	32.82	20.34	51.84	533.75	6,264.03	5,377.46	5,333.03	44.43	121.021	
5,600.00	5,264.06	5,309.71	5,202.45	33.63	25.27	56.90	501.34	6,399.81	5,363.32	5,313.80	49.52	108.310	
5,700.00	5,354.33	5,414.83	5,307.56	34.45	25.53	57.31	502.33	6,399.44	5,337.78	5,287.20	50.58	105.535	
5,800.00	5,444.60	5,517.90	5,410.62	35.27	25.78	57.71	503.54	6,398.73	5,312.11	5,260.47	51.64	102.869	
5,900.00	5,534.88	5,611.59	5,504.31	36.09	26.00	58.08	504.62	6,398.00	5,286.59	5,233.90	52.69	100.334	
6,000.00	5,625.15	5,716.43	5,609.14	36.91	26.26	58.51	505.65	6,397.00	5,261.17	5,207.40	53.77	97.851	
6,100.00	5,715.42	5,827.84	5,720.54	37.74	26.53	58.96	506.39	6,395.47	5,235.64	5,180.78	54.86	95.434	
6,200.00	5,805.69	5,941.98	5,834.65	38.56	26.80	59.44	507.19	6,393.41	5,209.95	5,153.99	55.97	93.093	
6,300.00	5,895.96	6,036.65	5,929.30	39.38	27.03	59.84	507.77	6,391.41	5,184.25	5,127.21	57.04	90.884	
6,400.00	5,986.24	6,117.89	6,010.52	40.20	27.22	60.18	508.29	6,389.73	5,158.84	5,100.73	58.10	88.787	
6,500.00	6,076.51	6,200.63	6,093.24	41.03	27.43	60.54	508.66	6,388.12	5,133.81	5,074.63	59.18	86.756	
6,600.00	6,166.78	6,296.30	6,188.90	41.85	27.66	60.95	508.73	6,386.21	5,109.06	5,048.78	60.28	84.759	
6,700.00	6,257.05	6,359.52	6,252.11	42.67	27.82	61.23	508.61	6,385.04	5,084.73	5,023.40	61.33	82.907	
6,800.00	6,347.33	6,413.85	6,306.43	43.50	27.96	61.48	508.40	6,384.31	5,061.20	4,998.82	62.37	81.143	
6,900.00	6,437.60	6,458.79	6,351.37	44.32	28.08	61.68	508.22	6,384.10	5,038.69	4,975.29	63.41	79.468	
7,000.00	6,527.87	6,505.17	6,397.75	45.15	28.21	61.88	508.04	6,384.32	5,017.26	4,952.82	64.44	77.854	
7,100.00	6,618.14	6,553.88	6,446.45	45.98	28.36	62.10	507.80	6,384.95	4,996.88	4,931.38	65.49	76.296	
7,200.00	6,708.41	6,696.79	6,589.35	46.80	28.78	62.74	506.92	6,386.96	4,977.01	4,910.24	66.78	74.534	
7,300.00	6,798.69	6,801.76	6,694.31	47.63	29.09	63.22	506.36	6,387.49	4,956.51	4,888.54	67.97	72.926	
7,400.00	6,888.96	6,903.66	6,796.21	48.45	29.38	63.69	505.69	6,387.62	4,935.98	4,866.83	69.15	71.379	
7,500.00	6,979.23	6,985.21	6,877.75	49.28	29.61	64.07	505.10	6,387.68	4,915.73	4,845.43	70.30	69.928	
7,600.00	7,069.50	7,056.70	6,949.25	50.11	29.81	64.41	504.40	6,387.95	4,896.09	4,824.67	71.43	68.548	
7,692.09	7,152.63	7,148.85	7,041.39	50.87	30.08	64.85	503.45	6,388.34	4,878.34	4,805.81	72.53	67.258	
7,700.00	7,159.79	7,156.79	7,049.33	50.93	30.10	63.52	503.37	6,388.37	4,876.80	4,804.18	72.63	67.149	
7,750.00	7,205.70	7,197.86	7,090.40	51.32	30.22	53.62	502.94	6,388.53	4,866.30	4,793.13	73.17	66.511	
7,800.00	7,252.52	7,243.89	7,136.42	51.66	30.36	40.87	502.43	6,388.73	4,854.43	4,780.78	73.65	65.912	
7,850.00	7,299.89	7,303.24	7,195.77	51.96	30.53	25.46	501.69	6,388.87	4,841.19	4,767.09	74.09	65.339	
7,900.00	7,347.44	7,355.82	7,248.34	52.20	30.68	8.71	500.97	6,388.87	4,826.60	4,752.15	74.45	64.832	
7,950.00	7,394.83	7,402.59	7,295.11	52.39	30.82	-7.22	500.36	6,388.87	4,810.87	4,736.15	74.71	64.390	
8,000.00	7,441.68	7,448.89	7,341.41	52.53	30.95	-20.88	499.80	6,388.89	4,794.11	4,719.20	74.91	63.999	
8,050.00	7,487.65	7,494.36	7,386.87	52.62	31.09	-32.01	499.29	6,388.92	4,776.48	4,701.44	75.03	63.659	
8,100.00	7,532.37	7,540.80	7,433.31	52.67	31.22	-41.04	498.81	6,388.97	4,758.11	4,683.02	75.09	63.363	
8,150.00	7,575.52	7,587.76	7,480.27	52.67	31.36	-48.52	498.41	6,389.01	4,739.15	4,664.06	75.09	63.113	
8,200.00	7,616.76	7,626.63	7,519.13	52.63	31.47	-54.82	498.13	6,389.05	4,719.80	4,644.79	75.01	62.923	
8,250.00	7,655.77	7,657.86	7,550.36	52.55	31.57	-60.23	497.92	6,389.12	4,700.32	4,625.47	74.85	62.793	
8,300.00	7,692.27	7,687.13	7,579.63	52.44	31.65	-64.98	497.73	6,389.25	4,680.93	4,606.29	74.64	62.712	
8,350.00	7,725.97	7,716.80	7,609.30	52.29	31.74	-69.22	497.54	6,389.42	4,661.83	4,587.45	74.38	62.675	
8,400.00	7,756.62	7,747.75	7,640.25	52.12	31.84	-73.05	497.34	6,389.61	4,643.17	4,569.09	74.08	62.680	
8,450.00	7,783.98	7,775.42	7,667.92	51.92	31.92	-76.47	497.17	6,389.77	4,625.17	4,551.44	73.73	62.732	
8,500.00	7,807.85	7,799.61	7,692.11	51.70	31.99	-79.50	497.02	6,389.92	4,608.02	4,534.68	73.34	62.832	
8,550.00	7,828.05	7,817.94	7,710.44	51.45	32.05	-82.13	496.90	6,390.04	4,591.94	4,519.03	72.91	62.980	
8,600.00	7,844.41	7,832.99	7,725.49	51.20	32.10	-84.40	496.81	6,390.14	4,577.10	4,504.65	72.45	63.172	
8,650.00	7,856.82	7,844.48	7,736.98	50.93	32.13	-86.30	496.74	6,390.22	4,563.67	4,491.70	71.98	63.404	
8,700.00	7,865.18	7,852.32	7,744.81	50.65	32.16	-87.85	496.69	6,390.28	4,551.80	4,480.32	71.48	63.675	
8,750.00	7,869.43	7,856.44	7,748.94	50.36	32.17	-89.03	496.66	6,390.31	4,541.61	4,470.62	70.98	63.981	
8,776.25	7,870.00	7,857.11	7,749.60	50.21	32.17	-89.51	496.66	6,390.31	4,536.96	4,466.24	70.72	64.156	
8,800.00	7,870.00	7,857.24	7,749.74	50.08	32.17	-89.51	496.66	6,390.31	4,533.05	4,462.57	70.48	64.317	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 47-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,857.81	7,750.31	49.53	32.17	-89.52	496.65	6,390.32	4,517.89	4,448.36	69.54	64.973	
9,000.00	7,870.00	7,858.38	7,750.88	49.01	32.17	-89.52	496.65	6,390.32	4,504.91	4,436.22	68.68	65.589	
9,100.00	7,870.00	7,858.95	7,751.45	48.52	32.18	-89.53	496.64	6,390.32	4,494.11	4,426.17	67.94	66.151	
9,200.00	7,870.00	7,859.52	7,752.02	48.06	32.18	-89.54	496.64	6,390.33	4,485.51	4,418.21	67.30	66.646	
9,300.00	7,870.00	7,860.09	7,752.59	47.63	32.18	-89.55	496.64	6,390.33	4,479.13	4,412.34	66.79	67.059	
9,400.00	7,870.00	7,860.66	7,753.16	47.22	32.18	-89.55	496.63	6,390.34	4,474.98	4,408.57	66.42	67.379	
9,500.00	7,870.00	7,861.23	7,753.73	46.83	32.18	-89.56	496.63	6,390.34	4,473.06	4,406.89	66.17	67.595	
9,535.89	7,870.00	7,861.43	7,753.93	46.70	32.18	-89.56	496.63	6,390.34	4,472.92	4,406.79	66.13	67.636	CC, ES
9,600.00	7,870.00	7,861.80	7,754.30	46.48	32.19	-89.57	496.63	6,390.35	4,473.38	4,407.30	66.08	67.701	
9,700.00	7,870.00	7,862.37	7,754.87	46.14	32.19	-89.58	496.62	6,390.35	4,475.93	4,409.81	66.12	67.694	
9,800.00	7,870.00	7,862.94	7,755.44	45.83	32.19	-89.58	496.62	6,390.35	4,480.71	4,414.40	66.31	67.575	
9,900.00	7,870.00	7,863.51	7,756.01	45.54	32.19	-89.59	496.62	6,390.36	4,487.71	4,421.08	66.64	67.347	
10,000.00	7,870.00	7,864.08	7,756.58	45.27	32.19	-89.60	496.61	6,390.36	4,496.93	4,429.83	67.10	67.019	
10,100.00	7,870.00	7,864.65	7,757.15	45.03	32.19	-89.60	496.61	6,390.37	4,508.35	4,440.66	67.69	66.601	
10,200.00	7,870.00	7,865.22	7,757.72	44.82	32.20	-89.61	496.60	6,390.37	4,521.95	4,453.54	68.40	66.106	
10,300.00	7,870.00	7,865.79	7,758.29	44.66	32.20	-89.62	496.60	6,390.38	4,537.71	4,468.49	69.23	65.549	
10,400.00	7,870.00	7,866.36	7,758.86	44.56	32.20	-89.63	496.60	6,390.38	4,555.62	4,485.47	70.15	64.943	
10,500.00	7,870.00	7,866.93	7,759.43	44.58	32.20	-89.63	496.59	6,390.39	4,575.64	4,504.48	71.16	64.302	
10,600.00	7,870.00	7,867.50	7,760.00	44.82	32.20	-89.64	496.59	6,390.39	4,597.75	4,525.50	72.25	63.640	
10,700.00	7,870.00	7,868.08	7,760.57	45.36	32.20	-89.65	496.59	6,390.39	4,621.91	4,548.51	73.40	62.969	
10,800.00	7,870.00	7,868.65	7,761.14	46.15	32.21	-89.66	496.58	6,390.40	4,648.11	4,573.50	74.61	62.298	
10,900.00	7,870.00	7,869.22	7,761.72	47.09	32.21	-89.66	496.58	6,390.40	4,676.29	4,600.43	75.87	61.638	
11,000.00	7,870.00	7,869.79	7,762.29	48.13	32.21	-89.67	496.58	6,390.41	4,706.44	4,629.27	77.16	60.995	
11,100.00	7,870.00	7,870.36	7,762.86	49.22	32.21	-89.68	496.57	6,390.41	4,738.50	4,660.01	78.48	60.376	
11,200.00	7,870.00	7,870.93	7,763.43	50.37	32.21	-89.69	496.57	6,390.42	4,772.44	4,692.61	79.83	59.785	
11,300.00	7,870.00	7,871.50	7,764.00	51.55	32.21	-89.69	496.57	6,390.42	4,808.22	4,727.03	81.18	59.226	
11,400.00	7,870.00	7,872.08	7,764.57	52.76	32.22	-89.70	496.56	6,390.43	4,845.80	4,763.25	82.55	58.702	
11,500.00	7,870.00	7,872.65	7,765.15	54.00	32.22	-89.71	496.56	6,390.43	4,885.14	4,801.22	83.92	58.214	
11,600.00	7,870.00	7,873.22	7,765.72	55.27	32.22	-89.71	496.55	6,390.43	4,926.19	4,840.91	85.28	57.765	
11,700.00	7,870.00	7,873.79	7,766.29	56.56	32.22	-89.72	496.55	6,390.44	4,968.92	4,882.29	86.64	57.353	
11,800.00	7,870.00	7,874.37	7,766.86	57.88	32.22	-89.73	496.55	6,390.44	5,013.28	4,925.30	87.98	56.980	
11,900.00	7,870.00	7,874.94	7,767.43	59.21	32.23	-89.74	496.54	6,390.45	5,059.23	4,969.91	89.31	56.645	
12,000.00	7,870.00	7,875.51	7,768.01	60.57	32.23	-89.74	496.54	6,390.45	5,106.72	5,016.09	90.63	56.348	
12,100.00	7,870.00	7,876.08	7,768.58	61.94	32.23	-89.75	496.54	6,390.46	5,155.72	5,063.79	91.92	56.087	
12,200.00	7,870.00	7,876.66	7,769.15	63.33	32.23	-89.76	496.53	6,390.46	5,206.17	5,112.97	93.20	55.862	
12,300.00	7,870.00	7,877.23	7,769.72	64.74	32.23	-89.77	496.53	6,390.47	5,258.04	5,163.59	94.45	55.671	
12,400.00	7,870.00	7,877.80	7,770.30	66.16	32.23	-89.77	496.53	6,390.47	5,311.29	5,215.62	95.67	55.514	
12,500.00	7,870.00	7,878.37	7,770.87	67.59	32.24	-89.78	496.52	6,390.48	5,365.87	5,269.00	96.87	55.390	
12,600.00	7,870.00	7,878.95	7,771.44	69.04	32.24	-89.79	496.52	6,390.48	5,421.75	5,323.70	98.05	55.297	
12,700.00	7,870.00	7,879.52	7,772.02	70.51	32.24	-89.80	496.51	6,390.48	5,478.89	5,379.69	99.20	55.233	
12,800.00	7,870.00	7,880.09	7,772.59	71.98	32.24	-89.80	496.51	6,390.49	5,537.24	5,436.92	100.32	55.198	
12,900.00	7,870.00	7,880.67	7,773.16	73.47	32.24	-89.81	496.51	6,390.49	5,596.77	5,495.36	101.41	55.191	SF
13,000.00	7,870.00	7,881.24	7,773.74	74.96	32.24	-89.82	496.50	6,390.50	5,657.44	5,554.97	102.47	55.210	
13,100.00	7,870.00	7,881.81	7,774.31	76.47	32.25	-89.82	496.50	6,390.50	5,719.21	5,615.71	103.51	55.254	
13,200.00	7,870.00	7,882.39	7,774.88	77.99	32.25	-89.83	496.50	6,390.51	5,782.06	5,677.54	104.52	55.322	
13,300.00	7,870.00	7,882.96	7,775.46	79.51	32.25	-89.84	496.49	6,390.51	5,845.94	5,740.44	105.50	55.413	
13,400.00	7,870.00	7,883.53	7,776.03	81.05	32.25	-89.85	496.49	6,390.52	5,910.82	5,804.37	106.45	55.526	
13,500.00	7,870.00	7,884.11	7,776.60	82.59	32.25	-89.85	496.48	6,390.52	5,976.67	5,869.29	107.38	55.659	
13,600.00	7,870.00	7,884.68	7,777.18	84.14	32.26	-89.86	496.48	6,390.53	6,043.46	5,935.18	108.28	55.813	
13,700.00	7,870.00	7,885.26	7,777.75	85.70	32.26	-89.87	496.48	6,390.53	6,111.15	6,002.00	109.16	55.986	
13,800.00	7,870.00	7,885.83	7,778.33	87.26	32.26	-89.88	496.47	6,390.54	6,179.72	6,069.72	110.00	56.177	
13,900.00	7,870.00	7,886.41	7,778.90	88.83	32.26	-89.88	496.47	6,390.54	6,249.14	6,138.31	110.83	56.385	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 47-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,886.98	7,779.48	90.41	32.26	-89.89	496.47	6,390.55	6,319.38	6,207.75	111.63	56.610	
14,100.00	7,870.00	7,887.55	7,780.05	92.00	32.26	-89.90	496.46	6,390.55	6,390.41	6,278.00	112.41	56.850	
14,200.00	7,870.00	7,888.13	7,780.62	93.59	32.27	-89.91	496.46	6,390.55	6,462.21	6,349.04	113.16	57.106	
14,300.00	7,870.00	7,888.70	7,781.20	95.18	32.27	-89.91	496.46	6,390.56	6,534.75	6,420.85	113.89	57.376	
14,400.00	7,870.00	7,889.28	7,781.77	96.79	32.27	-89.92	496.45	6,390.56	6,608.00	6,493.40	114.60	57.660	
14,500.00	7,870.00	7,889.85	7,782.35	98.39	32.27	-89.93	496.45	6,390.57	6,681.95	6,566.66	115.29	57.957	
14,600.00	7,870.00	7,890.43	7,782.92	100.00	32.27	-89.93	496.44	6,390.57	6,756.57	6,640.61	115.96	58.267	
14,700.00	7,870.00	7,891.00	7,783.50	101.62	32.27	-89.94	496.44	6,390.58	6,831.84	6,715.23	116.61	58.588	
14,800.00	7,870.00	7,891.72	7,784.22	103.24	32.28	-89.95	496.44	6,390.58	6,907.74	6,790.50	117.24	58.922	
14,900.00	7,870.00	7,892.44	7,784.93	104.87	32.28	-89.96	496.43	6,390.59	6,984.24	6,866.39	117.85	59.266	
15,000.00	7,870.00	7,893.15	7,785.65	106.50	32.28	-89.97	496.43	6,390.60	7,061.33	6,942.89	118.44	59.621	
15,100.00	7,870.00	7,893.86	7,786.35	108.13	32.28	-89.98	496.42	6,390.60	7,138.99	7,019.98	119.01	59.985	
15,200.00	7,870.00	7,894.56	7,787.06	109.77	32.29	-89.99	496.42	6,390.61	7,217.20	7,097.63	119.57	60.360	
15,300.00	7,870.00	7,895.26	7,787.76	111.41	32.29	-90.00	496.41	6,390.61	7,295.94	7,175.83	120.11	60.744	
15,400.00	7,870.00	7,895.96	7,788.45	113.05	32.29	-90.01	496.41	6,390.62	7,375.20	7,254.56	120.64	61.136	
15,500.00	7,870.00	7,896.65	7,789.14	114.70	32.29	-90.01	496.41	6,390.62	7,454.95	7,333.80	121.15	61.537	
15,600.00	7,870.00	7,897.34	7,789.83	116.35	32.29	-90.02	496.40	6,390.63	7,535.19	7,413.55	121.64	61.947	
15,700.00	7,870.00	7,898.02	7,790.52	118.00	32.30	-90.03	496.40	6,390.64	7,615.89	7,493.77	122.12	62.364	
15,800.00	7,870.00	7,898.70	7,791.20	119.66	32.30	-90.04	496.39	6,390.64	7,697.05	7,574.46	122.59	62.788	
15,900.00	7,870.00	7,899.38	7,791.88	121.32	32.30	-90.05	496.39	6,390.65	7,778.65	7,655.61	123.04	63.220	
16,000.00	7,870.00	7,900.06	7,792.55	122.98	32.30	-90.06	496.38	6,390.65	7,860.67	7,737.19	123.48	63.659	
16,100.00	7,870.00	7,900.73	7,793.22	124.65	32.30	-90.07	496.38	6,390.66	7,943.11	7,819.20	123.91	64.104	
16,200.00	7,870.00	7,901.40	7,793.89	126.32	32.31	-90.08	496.38	6,390.66	8,025.94	7,901.61	124.33	64.556	
16,300.00	7,870.00	7,902.06	7,794.56	127.99	32.31	-90.08	496.37	6,390.67	8,109.16	7,984.43	124.73	65.014	
16,400.00	7,870.00	7,902.72	7,795.22	129.66	32.31	-90.09	496.37	6,390.67	8,192.76	8,067.63	125.12	65.478	
16,500.00	7,870.00	7,903.38	7,795.87	131.33	32.31	-90.10	496.36	6,390.68	8,276.71	8,151.21	125.50	65.947	
16,600.00	7,870.00	7,904.03	7,796.53	133.01	32.31	-90.11	496.36	6,390.68	8,361.03	8,235.15	125.88	66.422	
16,700.00	7,870.00	7,904.68	7,797.18	134.69	32.32	-90.12	496.36	6,390.69	8,445.68	8,319.44	126.24	66.903	
16,800.00	7,870.00	7,905.33	7,797.83	136.37	32.32	-90.13	496.35	6,390.69	8,530.67	8,404.08	126.59	67.388	
16,900.00	7,870.00	7,905.97	7,798.47	138.06	32.32	-90.13	496.35	6,390.70	8,615.98	8,489.04	126.93	67.878	
17,000.00	7,870.00	7,906.62	7,799.11	139.74	32.32	-90.14	496.34	6,390.70	8,701.60	8,574.33	127.27	68.373	
17,100.00	7,870.00	7,907.25	7,799.75	141.43	32.32	-90.15	496.34	6,390.71	8,787.53	8,659.93	127.59	68.872	
17,200.00	7,870.00	7,907.89	7,800.38	143.12	32.33	-90.16	496.34	6,390.71	8,873.75	8,745.84	127.91	69.376	
17,300.00	7,870.00	7,908.52	7,801.01	144.81	32.33	-90.17	496.33	6,390.72	8,960.25	8,832.04	128.22	69.884	
17,400.00	7,870.00	7,909.15	7,801.64	146.50	32.33	-90.17	496.33	6,390.72	9,047.04	8,918.52	128.52	70.396	
17,500.00	7,870.00	7,909.77	7,802.27	148.19	32.33	-90.18	496.33	6,390.72	9,134.09	9,005.28	128.81	70.911	
17,600.00	7,870.00	7,910.39	7,802.89	149.89	32.33	-90.19	496.32	6,390.73	9,221.41	9,092.32	129.10	71.431	
17,700.00	7,870.00	7,911.01	7,803.51	151.59	32.34	-90.20	496.32	6,390.73	9,308.98	9,179.61	129.37	71.954	
17,800.00	7,870.00	7,911.63	7,804.12	153.29	32.34	-90.21	496.31	6,390.74	9,396.80	9,267.16	129.65	72.481	
17,900.00	7,870.00	7,912.24	7,804.73	154.99	32.34	-90.21	496.31	6,390.74	9,484.87	9,354.96	129.91	73.011	
18,000.00	7,870.00	7,912.85	7,805.34	156.69	32.34	-90.22	496.31	6,390.75	9,573.16	9,442.99	130.17	73.544	
18,100.00	7,870.00	7,913.45	7,805.95	158.39	32.34	-90.23	496.30	6,390.75	9,661.69	9,531.27	130.42	74.080	
18,200.00	7,870.00	7,914.06	7,806.55	160.09	32.35	-90.24	496.30	6,390.76	9,750.43	9,619.77	130.67	74.620	
18,300.00	7,870.00	7,914.66	7,807.15	161.80	32.35	-90.25	496.30	6,390.76	9,839.40	9,708.49	130.91	75.162	
18,400.00	7,870.00	7,915.26	7,807.75	163.51	32.35	-90.25	496.29	6,390.76	9,928.57	9,797.42	131.14	75.707	
18,455.45	7,870.00	7,915.59	7,808.08	164.45	32.35	-90.26	496.29	6,390.77	9,978.10	9,846.83	131.27	76.011	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 78-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	82.09	757.59	5,454.00	5,507.00				
100.00	100.00	21.10	21.10	0.13	0.03	82.09	757.58	5,454.00	5,506.36	5,506.20	0.17	N/A	
199.88	199.88	116.88	116.88	0.49	0.26	82.10	756.95	5,453.93	5,506.21	5,505.46	0.75	7,351.269	
200.00	200.00	116.97	116.97	0.49	0.26	82.10	756.95	5,453.93	5,506.21	5,505.46	0.75	7,343.941	
300.00	300.00	169.00	168.97	0.85	0.45	82.11	755.49	5,454.23	5,506.51	5,505.22	1.30	4,249.527	
400.00	400.00	234.76	234.64	1.21	0.69	82.15	752.15	5,455.31	5,507.53	5,505.64	1.90	2,902.917	
500.00	500.00	291.89	291.58	1.57	0.91	82.20	747.87	5,457.01	5,509.44	5,506.97	2.47	2,228.832	
600.00	600.00	351.00	350.39	1.93	1.13	82.26	742.41	5,459.30	5,512.06	5,509.01	3.06	1,802.608	
700.00	700.00	410.03	408.98	2.29	1.37	82.33	735.84	5,462.17	5,515.43	5,511.78	3.65	1,509.090	
800.00	800.00	442.00	440.64	2.64	1.50	82.37	731.76	5,463.99	5,519.70	5,515.56	4.14	1,332.348	
900.00	900.00	493.78	491.75	3.00	1.73	82.45	724.35	5,467.59	5,524.95	5,520.22	4.72	1,169.348	
1,000.00	1,000.00	533.00	530.32	3.36	1.90	82.52	718.04	5,470.97	5,531.42	5,526.17	5.25	1,053.338	
1,100.00	1,100.00	564.97	561.64	3.72	2.06	82.58	712.48	5,474.13	5,539.05	5,533.29	5.76	962.263	
1,200.00	1,200.00	624.00	619.21	4.08	2.34	82.71	701.33	5,480.94	5,548.00	5,541.62	6.39	868.462	
1,300.00	1,300.00	644.05	638.68	4.44	2.45	82.75	697.27	5,483.49	5,557.82	5,550.97	6.84	812.356	
1,400.00	1,399.98	715.00	707.22	4.79	2.82	39.87	681.60	5,492.93	5,567.21	5,559.66	7.55	737.113	
1,500.00	1,499.84	757.41	747.94	5.15	3.07	39.90	671.37	5,498.95	5,574.72	5,566.59	8.13	685.681	
1,600.00	1,599.45	808.00	796.25	5.51	3.36	40.00	658.49	5,506.64	5,580.57	5,571.82	8.75	637.507	
1,700.00	1,698.70	858.28	843.99	5.87	3.67	40.13	644.95	5,514.73	5,584.69	5,575.29	9.40	594.215	
1,800.00	1,797.47	914.96	897.49	6.24	4.03	40.33	628.85	5,524.27	5,587.01	5,576.92	10.09	553.824	
1,900.00	1,895.62	975.88	954.87	6.63	4.43	40.59	611.32	5,534.87	5,587.48	5,576.66	10.82	516.408	
2,000.00	1,993.06	1,066.87	1,040.38	7.04	5.04	41.02	584.76	5,551.02	5,585.95	5,574.19	11.76	474.837	
2,100.00	2,089.64	1,150.41	1,118.65	7.48	5.61	41.48	559.62	5,565.84	5,582.12	5,569.43	12.68	440.083	
2,200.00	2,185.27	1,362.22	1,318.08	7.94	7.05	42.64	497.15	5,600.33	5,574.35	5,559.90	14.46	385.547	
2,300.00	2,279.82	1,402.26	1,355.77	8.45	7.33	42.99	485.26	5,606.71	5,564.65	5,549.52	15.12	367.924	
2,400.00	2,373.17	1,433.00	1,384.64	8.99	7.54	43.31	476.02	5,611.84	5,553.59	5,537.84	15.75	352.612	
2,500.00	2,465.21	1,478.73	1,427.39	9.58	7.87	43.75	461.91	5,619.82	5,541.19	5,524.68	16.51	335.590	
2,574.08	2,532.50	1,527.00	1,472.24	10.04	8.21	44.19	446.43	5,628.73	5,531.29	5,514.09	17.19	321.708	
2,600.00	2,555.89	1,527.00	1,472.24	10.21	8.21	44.19	446.43	5,628.73	5,527.65	5,510.34	17.32	319.177	
2,700.00	2,646.16	1,585.24	1,526.16	10.88	8.65	44.56	427.38	5,639.74	5,514.48	5,496.25	18.23	302.561	
2,800.00	2,736.44	1,666.52	1,601.45	11.57	9.25	45.08	400.83	5,655.03	5,501.93	5,482.61	19.31	284.867	
2,900.00	2,826.71	1,827.43	1,751.22	12.27	10.43	46.09	349.84	5,684.36	5,489.62	5,468.65	20.97	261.818	
3,000.00	2,916.98	1,895.83	1,815.27	13.00	10.92	46.52	329.05	5,696.38	5,477.27	5,455.29	21.98	249.250	
3,100.00	3,007.25	1,976.94	1,891.41	13.73	11.49	47.02	305.10	5,710.76	5,465.62	5,442.55	23.07	236.893	
3,200.00	3,097.52	2,053.14	1,963.04	14.48	12.02	47.48	282.93	5,724.30	5,454.60	5,430.46	24.14	225.920	
3,300.00	3,187.80	2,119.28	2,025.18	15.23	12.48	47.89	263.59	5,736.14	5,444.32	5,419.16	25.16	216.388	
3,400.00	3,278.07	2,182.00	2,083.91	15.99	12.93	48.28	244.79	5,747.58	5,434.97	5,408.80	26.16	207.728	
3,500.00	3,368.34	2,237.94	2,136.19	16.76	13.33	48.63	227.79	5,757.96	5,426.56	5,399.42	27.13	199.996	
3,600.00	3,458.61	2,399.61	2,287.62	17.54	14.49	49.65	179.48	5,787.43	5,418.62	5,389.79	28.83	187.954	
3,700.00	3,548.89	2,490.89	2,373.63	18.32	15.12	50.21	153.31	5,803.21	5,410.28	5,380.24	30.04	180.117	
3,800.00	3,639.16	2,555.00	2,433.98	19.10	15.56	50.61	134.75	5,814.34	5,402.65	5,371.58	31.07	173.895	
3,900.00	3,729.43	2,618.29	2,493.34	19.89	16.01	51.01	115.79	5,825.43	5,395.92	5,363.81	32.11	168.043	
4,000.00	3,819.70	2,708.88	2,578.07	20.69	16.66	51.58	88.01	5,841.41	5,390.03	5,356.69	33.34	161.655	
4,100.00	3,909.98	2,793.09	2,657.29	21.48	17.25	52.11	63.59	5,856.19	5,384.49	5,349.96	34.53	155.941	
4,200.00	4,000.25	2,854.83	2,715.23	22.28	17.69	52.50	45.24	5,867.08	5,379.75	5,344.19	35.56	151.267	
4,300.00	4,090.52	2,905.74	2,762.85	23.08	18.06	52.82	29.77	5,876.23	5,376.07	5,339.53	36.53	147.161	
4,400.00	4,180.79	2,962.45	2,815.77	23.88	18.47	53.19	12.21	5,886.66	5,373.45	5,335.91	37.54	143.123	
4,500.00	4,271.06	3,024.46	2,873.51	24.69	18.92	53.58	-7.20	5,898.22	5,371.80	5,333.21	38.60	139.176	
4,600.00	4,361.34	3,103.21	2,946.72	25.49	19.51	54.10	-32.22	5,912.96	5,370.97	5,331.19	39.78	135.024	
4,689.33	4,441.97	3,183.50	3,021.18	26.22	20.11	54.62	-58.30	5,927.78	5,370.77	5,329.85	40.91	131.271	
4,700.00	4,451.61	3,193.27	3,030.23	26.30	20.19	54.69	-61.54	5,929.56	5,370.77	5,329.72	41.05	130.833	
4,800.00	4,541.88	3,333.14	3,160.08	27.11	21.23	55.61	-107.27	5,954.29	5,370.69	5,328.00	42.69	125.809	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 78-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,828.15	4,567.29	3,359.60	3,184.79	27.34	21.42	55.78	-115.50	5,958.93	5,370.68	5,327.63	43.05	124.753	
4,900.00	4,632.15	3,417.05	3,238.64	27.92	21.83	56.14	-132.73	5,969.12	5,370.81	5,326.92	43.90	122.351	
5,000.00	4,722.43	3,476.16	3,294.08	28.74	22.26	56.52	-150.22	5,979.83	5,371.78	5,326.86	44.92	119.588	
5,100.00	4,812.70	3,522.91	3,337.85	29.55	22.59	56.81	-164.17	5,988.48	5,373.79	5,327.93	45.86	117.188	
5,200.00	4,902.97	3,564.59	3,376.71	30.37	22.90	57.08	-177.04	5,996.37	5,377.02	5,330.26	46.75	115.006	
5,300.00	4,993.24	3,630.86	3,438.25	31.18	23.39	57.50	-198.01	6,009.16	5,381.40	5,333.57	47.83	112.504	
5,400.00	5,083.51	3,823.13	3,618.02	32.00	24.78	58.72	-255.99	6,045.03	5,385.48	5,335.67	49.82	108.108	
5,500.00	5,173.79	3,898.84	3,689.12	32.82	25.32	59.19	-278.14	6,058.66	5,389.54	5,338.59	50.95	105.780	
5,600.00	5,264.06	3,961.00	3,747.25	33.63	25.77	59.59	-297.22	6,069.62	5,394.37	5,342.38	51.99	103.758	
5,700.00	5,354.33	4,006.81	3,789.97	34.45	26.10	59.89	-311.63	6,077.80	5,400.27	5,347.36	52.91	102.060	
5,800.00	5,444.60	4,056.00	3,835.77	35.27	26.47	60.20	-327.00	6,087.04	5,407.43	5,353.57	53.86	100.407	
5,900.00	5,534.88	4,118.48	3,893.91	36.09	26.93	60.60	-346.43	6,099.10	5,415.63	5,360.74	54.89	98.662	
6,000.00	5,625.15	6,000.00	3,996.15	36.91	40.85	61.30	-380.74	6,119.80	5,424.16	5,357.61	66.55	81.509	
6,100.00	5,715.42	4,306.21	4,068.70	37.74	28.32	61.79	-405.31	6,134.09	5,433.10	5,375.67	57.43	94.604	
6,200.00	5,805.69	4,357.12	4,116.10	38.56	28.70	62.12	-421.18	6,143.76	5,443.09	5,384.72	58.37	93.252	
6,300.00	5,895.96	4,405.22	4,160.81	39.38	29.06	62.42	-436.15	6,153.20	5,454.17	5,394.89	59.28	92.006	
6,400.00	5,986.24	4,471.48	4,222.35	40.20	29.55	62.83	-456.82	6,166.54	5,466.30	5,405.97	60.33	90.612	
6,500.00	6,076.51	4,567.79	4,311.68	41.03	30.28	63.44	-487.31	6,185.64	5,479.02	5,417.42	61.61	88.937	
6,600.00	6,166.78	6,428.49	6,116.28	41.85	39.25	73.39	-805.79	6,367.26	5,492.10	5,421.16	70.93	77.429	
6,700.00	6,257.05	6,534.16	6,221.94	42.67	39.44	73.86	-806.06	6,366.26	5,477.96	5,406.05	71.91	76.178	
6,800.00	6,347.33	6,642.27	6,330.05	43.50	39.63	74.33	-806.03	6,365.07	5,463.91	5,391.02	72.89	74.960	
6,900.00	6,437.60	6,726.14	6,413.92	44.32	39.78	74.70	-805.84	6,364.01	5,449.97	5,376.12	73.85	73.801	
7,000.00	6,527.87	7,000.00	6,525.49	45.15	40.26	75.20	-805.27	6,362.70	5,436.28	5,361.08	75.21	72.286	
7,100.00	6,618.14	6,949.96	6,637.70	45.98	40.17	75.70	-804.51	6,360.72	5,422.34	5,346.52	75.82	71.513	
7,200.00	6,708.41	7,095.58	6,783.27	46.80	40.42	76.36	-803.58	6,357.21	5,408.23	5,331.38	76.85	70.373	
7,300.00	6,798.69	7,203.25	6,890.89	47.63	40.60	76.84	-802.28	6,354.10	5,393.85	5,316.00	77.84	69.292	
7,400.00	6,888.96	7,261.22	6,948.83	48.45	40.70	77.10	-801.41	6,352.49	5,379.82	5,301.02	78.79	68.278	
7,500.00	6,979.23	7,297.92	6,985.52	49.28	40.77	77.27	-800.82	6,351.91	5,366.94	5,287.22	79.72	67.321	
7,600.00	7,069.50	7,517.00	7,204.49	50.11	41.17	78.28	-799.86	6,346.62	5,354.93	5,274.09	80.84	66.237	
7,692.09	7,152.63	7,546.16	7,233.62	50.87	41.24	78.42	-800.29	6,345.16	5,342.48	5,260.76	81.72	65.373	
7,700.00	7,159.79	7,548.40	7,235.85	50.93	41.24	77.13	-800.32	6,345.06	5,341.43	5,259.64	81.80	65.300	
7,750.00	7,205.70	7,562.77	7,250.21	51.32	41.27	67.47	-800.56	6,344.48	5,333.63	5,251.39	82.24	64.853	
7,800.00	7,252.52	7,577.50	7,264.93	51.66	41.30	54.94	-800.83	6,343.97	5,323.79	5,241.15	82.64	64.424	
7,850.00	7,299.89	7,611.00	7,298.41	51.96	41.37	39.76	-801.51	6,343.16	5,312.07	5,229.06	83.00	63.998	
7,900.00	7,347.44	7,611.00	7,298.41	52.20	41.37	23.17	-801.51	6,343.16	5,298.25	5,214.98	83.26	63.631	
7,950.00	7,394.83	7,611.00	7,298.41	52.39	41.37	7.41	-801.51	6,343.16	5,282.74	5,199.28	83.46	63.293	
8,000.00	7,441.68	7,645.56	7,332.97	52.53	41.45	-6.08	-802.19	6,342.77	5,265.38	5,181.71	83.67	62.932	
8,050.00	7,487.65	7,664.70	7,352.10	52.62	41.50	-17.11	-802.52	6,342.74	5,246.44	5,162.65	83.79	62.613	
8,100.00	7,532.37	7,705.00	7,392.39	52.67	41.60	-26.17	-803.09	6,343.13	5,226.12	5,142.22	83.90	62.287	
8,150.00	7,575.52	7,705.00	7,392.39	52.67	41.60	-33.65	-803.09	6,343.13	5,204.25	5,120.35	83.89	62.035	
8,200.00	7,616.76	7,705.00	7,392.39	52.63	41.60	-40.06	-803.09	6,343.13	5,181.34	5,097.51	83.83	61.806	
8,250.00	7,655.77	7,739.95	7,427.33	52.55	41.69	-45.93	-803.63	6,343.81	5,157.33	5,073.53	83.80	61.544	
8,300.00	7,692.27	7,757.89	7,445.26	52.44	41.74	-51.22	-803.98	6,344.23	5,132.54	5,048.85	83.69	61.329	
8,350.00	7,725.97	7,774.62	7,461.99	52.29	41.78	-56.14	-804.37	6,344.66	5,107.14	5,023.60	83.54	61.137	
8,400.00	7,756.62	7,799.00	7,486.34	52.12	41.85	-60.85	-805.01	6,345.37	5,081.36	4,997.99	83.37	60.953	
8,450.00	7,783.98	7,799.00	7,486.34	51.92	41.85	-65.09	-805.01	6,345.37	5,055.36	4,972.25	83.11	60.826	
8,500.00	7,807.85	7,819.57	7,506.90	51.70	41.91	-69.29	-805.63	6,346.02	5,029.40	4,946.52	82.88	60.686	
8,550.00	7,828.05	7,832.21	7,519.52	51.45	41.94	-73.18	-806.02	6,346.44	5,003.70	4,921.10	82.60	60.580	
8,600.00	7,844.41	7,842.69	7,529.99	51.20	41.97	-76.78	-806.37	6,346.80	4,978.49	4,896.19	82.29	60.496	
8,650.00	7,856.82	7,850.94	7,538.23	50.93	42.00	-80.08	-806.64	6,347.10	4,953.99	4,872.02	81.97	60.435	
8,700.00	7,865.18	7,856.86	7,544.15	50.65	42.01	-83.06	-806.85	6,347.31	4,930.42	4,848.78	81.63	60.398	
8,750.00	7,869.43	7,860.39	7,547.67	50.36	42.03	-85.69	-806.97	6,347.44	4,907.98	4,826.70	81.28	60.383	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 78-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,776.25	7,870.00	7,861.27	7,548.55	50.21	42.03	-86.92	-807.00	6,347.48	4,896.73	4,815.64	81.09	60.385	
8,800.00	7,870.00	7,861.76	7,549.04	50.08	42.03	-86.93	-807.02	6,347.49	4,886.77	4,805.85	80.92	60.389	
8,900.00	7,870.00	7,863.83	7,551.11	49.53	42.04	-86.95	-807.09	6,347.57	4,845.88	4,765.65	80.23	60.398	
9,000.00	7,870.00	7,865.93	7,553.20	49.01	42.04	-86.98	-807.16	6,347.65	4,806.73	4,727.13	79.59	60.392	
9,100.00	7,870.00	7,868.06	7,555.32	48.52	42.05	-87.01	-807.24	6,347.73	4,769.34	4,690.34	79.01	60.365	
9,200.00	7,870.00	7,870.21	7,557.47	48.06	42.05	-87.04	-807.32	6,347.81	4,733.78	4,655.29	78.49	60.311	
9,300.00	7,870.00	7,872.38	7,559.64	47.63	42.06	-87.07	-807.40	6,347.90	4,700.07	4,622.03	78.04	60.225	
9,400.00	7,870.00	7,874.59	7,561.85	47.22	42.07	-87.09	-807.48	6,347.98	4,668.26	4,590.58	77.68	60.099	
9,500.00	7,870.00	7,876.82	7,564.07	46.83	42.07	-87.12	-807.56	6,348.07	4,638.38	4,560.98	77.40	59.927	
9,600.00	7,870.00	7,879.08	7,566.33	46.48	42.08	-87.15	-807.64	6,348.16	4,610.48	4,533.26	77.22	59.704	
9,700.00	7,870.00	7,892.00	7,579.23	46.14	42.12	-87.32	-808.13	6,348.68	4,584.61	4,507.45	77.16	59.415	
9,800.00	7,870.00	7,892.00	7,579.23	45.83	42.12	-87.32	-808.13	6,348.68	4,560.76	4,483.56	77.20	59.078	
9,900.00	7,870.00	7,892.00	7,579.23	45.54	42.12	-87.32	-808.13	6,348.68	4,538.98	4,461.63	77.35	58.678	
10,000.00	7,870.00	7,892.00	7,579.23	45.27	42.12	-87.32	-808.13	6,348.68	4,519.31	4,441.68	77.63	58.215	
10,100.00	7,870.00	7,892.00	7,579.23	45.03	42.12	-87.32	-808.13	6,348.68	4,501.78	4,423.75	78.03	57.690	
10,200.00	7,870.00	10,200.00	7,721.87	44.82	48.30	-89.16	-812.54	6,352.14	4,486.14	4,401.43	84.72	52.955	
10,300.00	7,870.00	10,300.00	7,724.16	44.66	48.57	-89.19	-812.59	6,352.16	4,472.86	4,387.25	85.61	52.248	
10,400.00	7,870.00	8,109.83	7,796.92	44.56	42.71	-90.13	-813.91	6,352.61	4,461.92	4,381.89	80.02	55.758	
10,500.00	7,870.00	8,112.74	7,799.83	44.58	42.71	-90.17	-813.93	6,352.60	4,453.02	4,372.12	80.89	55.048	
10,600.00	7,870.00	8,115.37	7,802.46	44.82	42.72	-90.20	-813.95	6,352.59	4,446.35	4,364.48	81.88	54.306	
10,700.00	7,870.00	8,117.76	7,804.85	45.36	42.72	-90.23	-813.97	6,352.58	4,441.93	4,358.97	82.96	53.542	
10,800.00	7,870.00	8,119.93	7,807.02	46.15	42.73	-90.26	-813.99	6,352.57	4,439.75	4,355.61	84.14	52.765	
10,846.64	7,870.00	8,120.88	7,807.97	46.57	42.73	-90.27	-814.00	6,352.56	4,439.51	4,354.78	84.73	52.397 CC	
10,900.00	7,870.00	8,121.92	7,809.02	47.09	42.73	-90.28	-814.00	6,352.56	4,439.83	4,354.42	85.41	51.984 ES	
11,000.00	7,870.00	8,123.75	7,810.84	48.13	42.74	-90.31	-814.02	6,352.55	4,442.16	4,355.41	86.75	51.208	
11,100.00	7,870.00	8,125.44	7,812.53	49.22	42.74	-90.33	-814.03	6,352.54	4,446.73	4,358.58	88.15	50.442	
11,200.00	7,870.00	8,127.00	7,814.09	50.37	42.74	-90.35	-814.04	6,352.53	4,453.55	4,363.93	89.62	49.695	
11,300.00	7,870.00	8,128.45	7,815.54	51.55	42.75	-90.37	-814.05	6,352.52	4,462.59	4,371.47	91.13	48.972	
11,400.00	7,870.00	8,129.79	7,816.88	52.76	42.75	-90.39	-814.06	6,352.52	4,473.86	4,381.19	92.67	48.277	
11,500.00	7,870.00	8,131.05	7,818.14	54.00	42.75	-90.40	-814.06	6,352.51	4,487.32	4,393.08	94.24	47.614	
11,600.00	7,870.00	8,132.22	7,819.31	55.27	42.76	-90.42	-814.07	6,352.50	4,502.97	4,407.13	95.84	46.986	
11,700.00	7,870.00	8,133.32	7,820.41	56.56	42.76	-90.43	-814.08	6,352.49	4,520.77	4,423.33	97.44	46.396	
11,800.00	7,870.00	8,134.35	7,821.44	57.88	42.76	-90.44	-814.08	6,352.49	4,540.71	4,441.66	99.05	45.843	
11,900.00	7,870.00	8,135.32	7,822.41	59.21	42.76	-90.46	-814.09	6,352.48	4,562.75	4,462.10	100.65	45.331	
12,000.00	7,870.00	8,136.23	7,823.32	60.57	42.77	-90.47	-814.09	6,352.47	4,586.87	4,484.61	102.25	44.858	
12,100.00	7,870.00	8,137.09	7,824.19	61.94	42.77	-90.48	-814.09	6,352.47	4,613.03	4,509.19	103.84	44.424	
12,200.00	7,870.00	8,137.91	7,825.00	63.33	42.77	-90.49	-814.10	6,352.46	4,641.19	4,535.78	105.41	44.031	
12,300.00	7,870.00	8,138.68	7,825.77	64.74	42.77	-90.50	-814.10	6,352.46	4,671.33	4,564.37	106.95	43.676	
12,400.00	7,870.00	8,139.41	7,826.50	66.16	42.77	-90.51	-814.10	6,352.45	4,703.40	4,594.92	108.48	43.359	
12,500.00	7,870.00	8,140.11	7,827.20	67.59	42.77	-90.52	-814.11	6,352.45	4,737.36	4,627.39	109.97	43.080	
12,600.00	7,870.00	8,140.77	7,827.86	69.04	42.78	-90.53	-814.11	6,352.44	4,773.18	4,661.75	111.43	42.836	
12,700.00	7,870.00	8,141.40	7,828.49	70.51	42.78	-90.54	-814.11	6,352.44	4,810.81	4,697.95	112.86	42.628	
12,800.00	7,870.00	8,142.00	7,829.09	71.98	42.78	-90.54	-814.12	6,352.43	4,850.21	4,735.96	114.25	42.453	
12,900.00	7,870.00	8,142.57	7,829.66	73.47	42.78	-90.55	-814.12	6,352.43	4,891.34	4,775.73	115.61	42.311	
13,000.00	7,870.00	8,143.12	7,830.21	74.96	42.78	-90.56	-814.12	6,352.42	4,934.15	4,817.23	116.92	42.200	
13,100.00	7,870.00	8,143.64	7,830.73	76.47	42.78	-90.56	-814.12	6,352.42	4,978.60	4,860.40	118.20	42.119	
13,200.00	7,870.00	8,144.14	7,831.23	77.99	42.78	-90.57	-814.12	6,352.41	5,024.65	4,905.21	119.44	42.067	
13,300.00	7,870.00	8,144.62	7,831.71	79.51	42.78	-90.58	-814.12	6,352.41	5,072.26	4,951.61	120.64	42.043 SF	
13,400.00	7,870.00	8,145.08	7,832.17	81.05	42.79	-90.58	-814.13	6,352.41	5,121.37	4,999.56	121.81	42.045	
13,500.00	7,870.00	8,145.52	7,832.61	82.59	42.79	-90.59	-814.13	6,352.40	5,171.95	5,049.02	122.93	42.073	
13,600.00	7,870.00	8,145.94	7,833.03	84.14	42.79	-90.59	-814.13	6,352.40	5,223.96	5,099.95	124.01	42.125	
13,700.00	7,870.00	8,146.35	7,833.44	85.70	42.79	-90.60	-814.13	6,352.40	5,277.35	5,152.29	125.06	42.200	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 78-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	7,870.00	8,146.74	7,833.83	87.26	42.79	-90.60	-814.13	6,352.39	5,332.07	5,206.01	126.06	42.297	
13,900.00	7,870.00	8,147.12	7,834.21	88.83	42.79	-90.61	-814.13	6,352.39	5,388.10	5,261.07	127.03	42.415	
14,000.00	7,870.00	8,147.48	7,834.57	90.41	42.79	-90.61	-814.13	6,352.39	5,445.39	5,317.43	127.96	42.554	
14,100.00	7,870.00	8,147.83	7,834.92	92.00	42.79	-90.62	-814.14	6,352.38	5,503.90	5,375.04	128.86	42.712	
14,200.00	7,870.00	8,148.17	7,835.26	93.59	42.79	-90.62	-814.14	6,352.38	5,563.60	5,433.87	129.72	42.889	
14,300.00	7,870.00	8,148.49	7,835.58	95.18	42.79	-90.63	-814.14	6,352.38	5,624.43	5,493.88	130.55	43.083	
14,400.00	7,870.00	8,148.81	7,835.90	96.79	42.79	-90.63	-814.14	6,352.38	5,686.38	5,555.03	131.34	43.294	
14,500.00	7,870.00	8,149.11	7,836.20	98.39	42.80	-90.64	-814.14	6,352.37	5,749.39	5,617.29	132.11	43.521	
14,600.00	7,870.00	8,149.41	7,836.50	100.00	42.80	-90.64	-814.14	6,352.37	5,813.45	5,680.61	132.84	43.764	
14,700.00	7,870.00	8,149.69	7,836.78	101.62	42.80	-90.64	-814.14	6,352.37	5,878.50	5,744.97	133.54	44.021	
14,800.00	7,870.00	8,149.97	7,837.06	103.24	42.80	-90.65	-814.14	6,352.37	5,944.53	5,810.32	134.21	44.292	
14,900.00	7,870.00	8,150.23	7,837.32	104.87	42.80	-90.65	-814.14	6,352.36	6,011.50	5,876.64	134.86	44.577	
15,000.00	7,870.00	8,150.49	7,837.58	106.50	42.80	-90.65	-814.14	6,352.36	6,079.37	5,943.90	135.47	44.875	
15,100.00	7,870.00	8,150.74	7,837.83	108.13	42.80	-90.66	-814.14	6,352.36	6,148.12	6,012.06	136.06	45.186	
15,200.00	7,870.00	8,150.99	7,838.08	109.77	42.80	-90.66	-814.14	6,352.36	6,217.72	6,081.09	136.63	45.508	
15,300.00	7,870.00	8,151.22	7,838.31	111.41	42.80	-90.66	-814.14	6,352.35	6,288.14	6,150.96	137.17	45.841	
15,400.00	7,870.00	8,151.45	7,838.54	113.05	42.80	-90.67	-814.15	6,352.35	6,359.35	6,221.66	137.69	46.185	
15,500.00	7,870.00	8,151.67	7,838.77	114.70	42.80	-90.67	-814.15	6,352.35	6,431.33	6,293.14	138.19	46.540	
15,600.00	7,870.00	8,151.89	7,838.98	116.35	42.80	-90.67	-814.15	6,352.35	6,504.04	6,365.38	138.67	46.905	
15,700.00	7,870.00	8,152.10	7,839.19	118.00	42.80	-90.67	-814.15	6,352.35	6,577.48	6,438.36	139.12	47.279	
15,800.00	7,870.00	8,152.31	7,839.40	119.66	42.80	-90.68	-814.15	6,352.34	6,651.61	6,512.05	139.56	47.662	
15,900.00	7,870.00	8,152.50	7,839.60	121.32	42.80	-90.68	-814.15	6,352.34	6,726.40	6,586.43	139.98	48.054	
16,000.00	7,870.00	8,152.70	7,839.79	122.98	42.80	-90.68	-814.15	6,352.34	6,801.85	6,661.48	140.37	48.455	
16,100.00	7,870.00	8,152.89	7,839.98	124.65	42.80	-90.68	-814.15	6,352.34	6,877.92	6,737.16	140.76	48.864	
16,200.00	7,870.00	8,153.07	7,840.16	126.32	42.80	-90.69	-814.15	6,352.34	6,954.60	6,813.48	141.12	49.280	
16,300.00	7,870.00	8,153.25	7,840.34	127.99	42.80	-90.69	-814.15	6,352.34	7,031.86	6,890.39	141.47	49.704	
16,400.00	7,870.00	8,153.42	7,840.51	129.66	42.80	-90.69	-814.15	6,352.33	7,109.69	6,967.88	141.81	50.135	
16,500.00	7,870.00	8,153.59	7,840.68	131.33	42.81	-90.69	-814.15	6,352.33	7,188.07	7,045.94	142.13	50.573	
16,600.00	7,870.00	8,153.76	7,840.85	133.01	42.81	-90.69	-814.15	6,352.33	7,266.98	7,124.54	142.44	51.018	
16,700.00	7,870.00	8,153.92	7,841.01	134.69	42.81	-90.70	-814.15	6,352.33	7,346.40	7,203.67	142.74	51.469	
16,800.00	7,870.00	8,154.08	7,841.17	136.37	42.81	-90.70	-814.15	6,352.33	7,426.32	7,283.31	143.02	51.926	
16,900.00	7,870.00	8,154.23	7,841.32	138.06	42.81	-90.70	-814.15	6,352.33	7,506.73	7,363.44	143.29	52.389	
17,000.00	7,870.00	8,154.38	7,841.47	139.74	42.81	-90.70	-814.15	6,352.32	7,587.59	7,444.05	143.55	52.858	
17,100.00	7,870.00	8,154.53	7,841.62	141.43	42.81	-90.70	-814.15	6,352.32	7,668.91	7,525.12	143.80	53.332	
17,200.00	7,870.00	8,154.67	7,841.76	143.12	42.81	-90.71	-814.15	6,352.32	7,750.67	7,606.63	144.03	53.811	
17,300.00	7,870.00	8,154.81	7,841.90	144.81	42.81	-90.71	-814.15	6,352.32	7,832.85	7,688.58	144.26	54.296	
17,400.00	7,870.00	8,154.95	7,842.04	146.50	42.81	-90.71	-814.15	6,352.32	7,915.44	7,770.96	144.48	54.785	
17,500.00	7,870.00	8,155.08	7,842.17	148.19	42.81	-90.71	-814.15	6,352.32	7,998.42	7,853.73	144.69	55.279	
17,600.00	7,870.00	8,155.21	7,842.30	149.89	42.81	-90.71	-814.15	6,352.32	8,081.80	7,936.90	144.89	55.778	
17,700.00	7,870.00	8,155.34	7,842.43	151.59	42.81	-90.72	-814.15	6,352.32	8,165.54	8,020.46	145.09	56.281	
17,800.00	7,870.00	8,155.47	7,842.56	153.29	42.81	-90.72	-814.15	6,352.31	8,249.65	8,104.38	145.27	56.788	
17,900.00	7,870.00	8,155.59	7,842.68	154.99	42.81	-90.72	-814.15	6,352.31	8,334.11	8,188.66	145.45	57.299	
18,000.00	7,870.00	8,155.71	7,842.80	156.69	42.81	-90.72	-814.15	6,352.31	8,418.91	8,273.29	145.62	57.814	
18,100.00	7,870.00	8,155.83	7,842.92	158.39	42.81	-90.72	-814.15	6,352.31	8,504.04	8,358.25	145.78	58.333	
18,200.00	7,870.00	8,155.94	7,843.03	160.09	42.81	-90.72	-814.15	6,352.31	8,589.49	8,443.54	145.94	58.856	
18,300.00	7,870.00	8,156.06	7,843.15	161.80	42.81	-90.72	-814.15	6,352.31	8,675.25	8,529.15	146.09	59.382	
18,400.00	7,870.00	8,156.17	7,843.26	163.51	42.81	-90.73	-814.15	6,352.31	8,761.31	8,615.07	146.24	59.911	
18,455.45	7,870.00	8,156.23	7,843.32	164.45	42.81	-90.73	-814.15	6,352.31	8,809.16	8,662.84	146.32	60.206	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 109-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1,151.43	1,128.70	0.00	5.11	83.40	612.00	5,285.76	5,457.07				
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.52	598.85	5,273.56	5,435.25	5,429.97	5.28	1,029.691	
200.00	200.00	1,305.21	1,276.23	0.49	6.02	83.71	579.85	5,256.61	5,413.84	5,407.93	5.90	917.135	
300.00	300.00	1,578.09	1,536.36	0.85	7.72	84.32	517.30	5,203.06	5,392.36	5,384.75	7.61	708.167	
400.00	400.00	1,730.66	1,681.19	1.21	8.71	84.64	484.63	5,167.91	5,366.61	5,357.90	8.71	616.385	
500.00	500.00	1,787.35	1,735.14	1.57	9.07	84.76	472.93	5,155.04	5,341.62	5,332.30	9.32	573.128	
600.00	600.00	1,869.00	1,812.87	1.93	9.59	84.93	455.98	5,136.70	5,316.98	5,306.91	10.07	527.831	
700.00	700.00	1,933.07	1,874.04	2.29	9.99	85.05	443.27	5,122.49	5,292.83	5,282.10	10.74	492.964	
800.00	800.00	1,991.28	1,929.90	2.64	10.35	85.16	432.76	5,109.94	5,269.49	5,258.11	11.37	463.288	
900.00	900.00	2,056.00	1,992.03	3.00	10.74	85.28	420.67	5,096.45	5,246.82	5,234.77	12.04	435.623	
1,000.00	1,000.00	2,234.19	2,162.69	3.36	11.83	85.62	386.98	5,057.83	5,223.08	5,209.82	13.27	393.655	
1,100.00	1,100.00	2,340.34	2,264.34	3.72	12.49	85.82	367.54	5,034.20	5,199.19	5,185.05	14.14	367.659	
1,200.00	1,200.00	2,413.67	2,334.61	4.08	12.94	85.96	354.39	5,017.93	5,175.46	5,160.60	14.86	348.324	
1,300.00	1,300.00	2,513.00	2,429.87	4.44	13.55	86.15	336.56	4,996.12	5,152.00	5,136.30	15.70	328.161	
1,400.00	1,399.98	2,576.41	2,490.65	4.79	13.93	43.68	324.90	4,982.32	5,127.53	5,111.15	16.38	313.061	
1,500.00	1,499.84	2,651.36	2,562.55	5.15	14.39	44.24	310.73	4,966.57	5,101.31	5,084.20	17.12	298.035	
1,600.00	1,599.45	2,732.93	2,640.81	5.51	14.89	44.89	295.48	4,949.40	5,072.82	5,054.93	17.89	283.619	
1,700.00	1,698.70	2,781.05	2,687.14	5.87	15.17	45.48	286.94	4,939.57	5,042.72	5,024.22	18.50	272.622	
1,800.00	1,797.47	3,023.08	2,919.98	6.24	16.61	46.78	246.52	4,887.46	5,009.52	4,989.53	19.98	250.676	
1,900.00	1,895.62	3,059.37	2,954.82	6.63	16.83	47.48	240.46	4,879.29	4,973.26	4,952.70	20.56	241.925	
2,000.00	1,993.06	3,134.26	3,026.89	7.04	17.28	48.39	228.13	4,863.12	4,935.79	4,914.48	21.31	231.580	
2,100.00	2,089.64	3,236.41	3,125.05	7.48	17.90	49.50	211.02	4,840.61	4,895.99	4,873.78	22.21	220.446	
2,200.00	2,185.27	3,309.97	3,195.69	7.94	18.34	50.57	198.36	4,824.44	4,854.40	4,831.40	23.00	211.037	
2,300.00	2,279.82	3,379.16	3,262.08	8.45	18.76	51.70	185.91	4,809.47	4,811.32	4,787.52	23.80	202.117	
2,400.00	2,373.17	3,458.66	3,338.35	8.99	19.25	52.98	171.39	4,792.35	4,766.72	4,742.03	24.69	193.088	
2,500.00	2,465.21	3,514.76	3,392.18	9.58	19.59	54.18	161.08	4,780.39	4,720.79	4,695.29	25.50	185.161	
2,574.08	2,532.50	3,554.00	3,429.85	10.04	19.83	55.10	153.80	4,772.18	4,686.08	4,659.97	26.11	179.481	
2,600.00	2,555.89	3,554.00	3,429.85	10.21	19.83	55.10	153.80	4,772.18	4,673.91	4,647.65	26.26	177.954	
2,700.00	2,646.16	3,609.55	3,483.24	10.88	20.16	55.51	143.44	4,760.89	4,627.42	4,600.29	27.14	170.520	
2,800.00	2,736.44	3,647.00	3,519.30	11.57	20.39	55.79	136.45	4,753.54	4,581.96	4,554.01	27.95	163.918	
2,900.00	2,826.71	3,682.64	3,553.66	12.27	20.59	56.06	129.79	4,746.84	4,537.65	4,508.87	28.78	157.652	
3,000.00	2,916.98	3,714.17	3,584.13	13.00	20.77	56.30	123.90	4,741.24	4,494.60	4,464.99	29.62	151.761	
3,100.00	3,007.25	3,769.20	3,637.40	13.73	21.09	56.72	113.61	4,732.03	4,452.81	4,422.22	30.58	145.598	
3,200.00	3,097.52	3,985.26	3,845.78	14.48	22.34	58.40	73.06	4,691.98	4,409.97	4,377.64	32.33	136.396	
3,300.00	3,187.80	4,056.09	3,914.02	15.23	22.76	58.97	60.36	4,677.86	4,366.86	4,333.45	33.42	130.682	
3,400.00	3,278.07	4,113.94	3,969.88	15.99	23.10	59.42	50.42	4,666.56	4,324.59	4,290.13	34.46	125.505	
3,500.00	3,368.34	4,228.40	4,080.45	16.76	23.76	60.34	31.31	4,643.97	4,282.69	4,246.92	35.76	119.747	
3,600.00	3,458.61	4,327.01	4,175.21	17.54	24.35	61.16	13.05	4,623.72	4,240.89	4,203.84	37.04	114.484	
3,700.00	3,548.89	4,445.57	4,288.72	18.32	25.09	62.19	-9.83	4,598.22	4,198.99	4,160.53	38.45	109.196	
3,800.00	3,639.16	4,550.76	4,389.01	19.10	25.76	63.13	-31.07	4,574.67	4,157.21	4,117.38	39.83	104.361	
3,900.00	3,729.43	4,654.69	4,487.73	19.89	26.44	64.09	-52.80	4,550.48	4,115.54	4,074.30	41.24	99.788	
4,000.00	3,819.70	4,750.60	4,578.78	20.69	27.07	64.99	-72.40	4,527.60	4,074.14	4,031.52	42.63	95.579	
4,100.00	3,909.98	4,807.58	4,632.97	21.48	27.44	65.52	-83.50	4,513.95	4,033.35	3,989.51	43.84	92.003	
4,200.00	4,000.25	4,853.01	4,676.14	22.28	27.74	65.95	-92.86	4,503.29	3,993.80	3,948.78	45.02	88.718	
4,300.00	4,090.52	4,896.44	4,717.37	23.08	28.02	66.38	-102.16	4,493.35	3,955.56	3,909.36	46.20	85.615	
4,400.00	4,180.79	4,939.72	4,758.57	23.88	28.30	66.80	-111.33	4,483.77	3,918.70	3,871.30	47.40	82.674	
4,500.00	4,271.06	5,024.78	4,839.73	24.69	28.84	67.63	-128.96	4,465.40	3,883.03	3,834.22	48.82	79.540	
4,600.00	4,361.34	5,093.70	4,905.54	25.49	29.28	68.31	-142.80	4,450.28	3,847.88	3,797.72	50.17	76.704	
4,700.00	4,451.61	5,147.00	4,956.55	26.30	29.61	68.83	-153.23	4,438.91	3,813.95	3,762.51	51.44	74.137	
4,800.00	4,541.88	5,196.35	5,003.98	27.11	29.90	69.31	-162.39	4,428.81	3,781.36	3,728.66	52.70	71.754	
4,900.00	4,632.15	5,240.00	5,046.14	27.92	30.16	69.73	-169.85	4,420.33	3,750.16	3,696.23	53.93	69.536	
5,000.00	4,722.43	5,282.87	5,087.76	28.74	30.38	70.13	-176.54	4,412.59	3,720.50	3,665.36	55.14	67.472	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 109-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	5,334.00	5,137.72	29.55	30.66	70.60	-183.62	4,404.29	3,692.53	3,636.14	56.39	65.485	
5,200.00	4,902.97	5,363.20	5,166.37	30.37	30.79	70.86	-187.28	4,400.00	3,666.13	3,608.60	57.52	63.732	
5,300.00	4,993.24	5,405.34	5,207.84	31.18	30.99	71.23	-192.21	4,394.34	3,641.40	3,582.69	58.71	62.026	
5,400.00	5,083.51	5,446.88	5,248.83	32.00	31.17	71.59	-196.65	4,389.37	3,618.31	3,558.43	59.88	60.428	
5,500.00	5,173.79	5,487.59	5,289.12	32.82	31.34	71.94	-200.70	4,385.12	3,596.92	3,535.89	61.03	58.934	
5,600.00	5,264.06	5,532.02	5,333.19	33.63	31.51	72.31	-204.80	4,381.19	3,577.23	3,515.04	62.19	57.519	
5,700.00	5,354.33	5,589.34	5,390.15	34.45	31.73	72.78	-209.54	4,376.87	3,559.00	3,495.62	63.38	56.153	
5,800.00	5,444.60	5,646.14	5,446.70	35.27	31.92	73.24	-213.55	4,373.37	3,542.12	3,477.57	64.55	54.875	
5,900.00	5,534.88	5,708.00	5,508.40	36.09	32.12	73.72	-216.89	4,370.60	3,526.62	3,460.90	65.72	53.664	
6,000.00	5,625.15	5,765.14	5,565.48	36.91	32.28	74.15	-219.05	4,368.97	3,512.41	3,445.57	66.84	52.552	
6,100.00	5,715.42	5,830.24	5,630.55	37.74	32.44	74.62	-220.53	4,368.08	3,499.39	3,431.43	67.96	51.492	
6,200.00	5,805.69	5,899.50	5,699.80	38.56	32.60	75.10	-221.20	4,368.06	3,487.48	3,418.41	69.07	50.493	
6,300.00	5,895.96	5,992.81	5,793.11	39.38	32.79	75.75	-221.67	4,368.50	3,476.28	3,406.06	70.22	49.506	
6,400.00	5,986.24	6,090.02	5,890.33	40.20	33.01	76.43	-222.29	4,368.72	3,465.44	3,394.05	71.39	48.542	
6,500.00	6,076.51	6,174.18	5,974.48	41.03	33.20	77.03	-222.95	4,368.85	3,455.12	3,382.58	72.53	47.634	
6,600.00	6,166.78	6,262.61	6,062.91	41.85	33.40	77.65	-223.69	4,369.05	3,445.39	3,371.70	73.69	46.756	
6,700.00	6,257.05	6,351.76	6,152.06	42.67	33.60	78.29	-224.31	4,369.37	3,436.22	3,361.39	74.84	45.916	
6,800.00	6,347.33	6,447.16	6,247.45	43.50	33.80	78.96	-224.74	4,369.78	3,427.53	3,351.54	75.99	45.103	
6,900.00	6,437.60	6,547.26	6,347.55	44.32	34.03	79.68	-225.11	4,370.01	3,419.15	3,341.99	77.17	44.309	
7,000.00	6,527.87	6,634.57	6,434.86	45.15	34.23	80.30	-225.38	4,370.12	3,411.20	3,332.89	78.31	43.562	
7,100.00	6,618.14	6,729.41	6,529.70	45.98	34.44	80.98	-225.56	4,370.30	3,403.77	3,324.31	79.46	42.838	
7,200.00	6,708.41	6,807.10	6,607.39	46.80	34.62	81.54	-225.73	4,370.52	3,396.93	3,316.37	80.56	42.166	
7,300.00	6,798.69	6,889.12	6,689.41	47.63	34.80	82.13	-226.10	4,370.98	3,390.96	3,309.29	81.67	41.519	
7,400.00	6,888.96	6,972.33	6,772.61	48.45	34.99	82.73	-226.48	4,371.62	3,385.69	3,302.91	82.78	40.900	
7,500.00	6,979.23	7,063.70	6,863.98	49.28	35.19	83.39	-226.78	4,372.61	3,381.11	3,297.21	83.90	40.300	
7,600.00	7,069.50	7,159.56	6,959.83	50.11	35.40	84.08	-227.01	4,373.46	3,376.87	3,291.84	85.03	39.715	
7,692.09	7,152.63	7,242.14	7,042.41	50.87	35.59	84.68	-227.24	4,374.14	3,373.42	3,287.37	86.05	39.204	
7,700.00	7,159.79	7,249.26	7,049.53	50.93	35.61	83.49	-227.27	4,374.20	3,373.11	3,286.97	86.13	39.161	
7,750.00	7,205.70	7,294.89	7,095.16	51.32	35.71	74.46	-227.42	4,374.57	3,369.59	3,282.93	86.66	38.884	
7,800.00	7,252.52	7,341.42	7,141.68	51.66	35.82	62.50	-227.60	4,374.93	3,363.35	3,276.22	87.13	38.602	
7,850.00	7,299.89	7,388.48	7,188.75	51.96	35.93	47.77	-227.80	4,375.28	3,354.40	3,266.85	87.55	38.316	
7,900.00	7,347.44	7,439.46	7,239.72	52.20	36.05	31.66	-228.05	4,375.63	3,342.74	3,254.83	87.91	38.022	
7,950.00	7,394.83	7,490.53	7,290.79	52.39	36.18	16.26	-228.29	4,375.90	3,328.40	3,240.18	88.22	37.727	
8,000.00	7,441.68	7,541.00	7,341.26	52.53	36.30	3.00	-228.53	4,376.10	3,311.48	3,223.01	88.47	37.430	
8,050.00	7,487.65	7,590.50	7,390.76	52.62	36.42	-7.91	-228.76	4,376.24	3,292.09	3,203.43	88.66	37.133	
8,100.00	7,532.37	7,627.87	7,428.13	52.67	36.51	-16.91	-228.95	4,376.38	3,270.48	3,181.72	88.76	36.847	
8,150.00	7,575.52	7,666.01	7,466.27	52.67	36.61	-24.56	-229.17	4,376.58	3,246.85	3,158.05	88.81	36.561	
8,200.00	7,616.76	7,706.99	7,507.25	52.63	36.70	-31.37	-229.39	4,376.85	3,221.38	3,132.57	88.81	36.274	
8,250.00	7,655.77	7,746.74	7,547.00	52.55	36.80	-37.66	-229.56	4,377.14	3,194.24	3,105.49	88.75	35.992	
8,300.00	7,692.27	7,783.88	7,584.14	52.44	36.89	-43.65	-229.68	4,377.44	3,165.70	3,077.06	88.63	35.716	
8,350.00	7,725.97	7,818.15	7,618.40	52.29	36.97	-49.46	-229.77	4,377.73	3,136.02	3,047.56	88.46	35.450	
8,400.00	7,756.62	7,849.31	7,649.56	52.12	37.05	-55.16	-229.84	4,377.99	3,105.51	3,017.28	88.23	35.196	
8,450.00	7,783.98	7,876.85	7,677.10	51.92	37.11	-60.72	-229.90	4,378.22	3,074.48	2,986.53	87.95	34.957	
8,500.00	7,807.85	7,900.74	7,700.99	51.70	37.17	-66.10	-229.95	4,378.42	3,043.23	2,955.61	87.62	34.734	
8,550.00	7,828.05	7,920.98	7,721.23	51.45	37.22	-71.24	-230.00	4,378.59	3,012.09	2,924.86	87.23	34.530	
8,600.00	7,844.41	7,937.42	7,737.67	51.20	37.26	-76.05	-230.04	4,378.73	2,981.39	2,894.59	86.80	34.348	
8,650.00	7,856.82	7,949.92	7,750.16	50.93	37.29	-80.46	-230.07	4,378.84	2,951.43	2,865.11	86.33	34.189	
8,700.00	7,865.18	7,958.38	7,758.63	50.65	37.31	-84.40	-230.09	4,378.91	2,922.53	2,836.72	85.81	34.057	
8,750.00	7,869.43	7,962.75	7,763.00	50.36	37.32	-87.84	-230.10	4,378.94	2,894.97	2,809.70	85.27	33.952	
8,776.25	7,870.00	7,962.45	7,762.70	50.21	37.32	-89.41	-230.10	4,378.94	2,881.13	2,796.17	84.96	33.910	
8,800.00	7,870.00	7,962.51	7,762.76	50.08	37.32	-89.41	-230.10	4,378.94	2,868.89	2,784.21	84.69	33.876	
8,900.00	7,870.00	7,962.76	7,763.00	49.53	37.32	-89.42	-230.10	4,378.94	2,818.98	2,735.46	83.52	33.750	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 109-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,963.01	7,763.25	49.01	37.32	-89.42	-230.10	4,378.95	2,771.78	2,689.43	82.35	33.658	
9,100.00	7,870.00	7,963.26	7,763.50	48.52	37.32	-89.43	-230.10	4,378.95	2,727.43	2,646.25	81.18	33.598	
9,200.00	7,870.00	7,963.51	7,763.76	48.06	37.32	-89.44	-230.10	4,378.95	2,686.07	2,606.05	80.02	33.566	
9,300.00	7,870.00	7,963.76	7,764.01	47.63	37.32	-89.44	-230.10	4,378.95	2,647.85	2,568.95	78.90	33.560	
9,400.00	7,870.00	7,964.02	7,764.26	47.22	37.32	-89.45	-230.11	4,378.96	2,612.89	2,535.07	77.83	33.573	
9,500.00	7,870.00	7,964.27	7,764.52	46.83	37.32	-89.45	-230.11	4,378.96	2,581.34	2,504.52	76.82	33.600	
9,600.00	7,870.00	7,964.53	7,764.78	46.48	37.32	-89.46	-230.11	4,378.96	2,553.32	2,477.40	75.91	33.635	
9,700.00	7,870.00	7,964.79	7,765.04	46.14	37.32	-89.47	-230.11	4,378.96	2,528.94	2,453.83	75.11	33.668	
9,800.00	7,870.00	7,965.05	7,765.30	45.83	37.32	-89.47	-230.11	4,378.96	2,508.32	2,433.87	74.45	33.693	
9,900.00	7,870.00	7,965.31	7,765.56	45.54	37.32	-89.48	-230.11	4,378.97	2,491.54	2,417.61	73.93	33.702	
10,000.00	7,870.00	7,965.58	7,765.83	45.27	37.32	-89.48	-230.11	4,378.97	2,478.68	2,405.11	73.57	33.690	
10,100.00	7,870.00	7,965.84	7,766.09	45.03	37.32	-89.49	-230.11	4,378.97	2,469.81	2,396.42	73.39	33.653	
10,200.00	7,870.00	7,966.11	7,766.36	44.82	37.32	-89.50	-230.11	4,378.97	2,464.97	2,391.59	73.38	33.591	
10,269.46	7,870.00	7,966.30	7,766.54	44.70	37.33	-89.50	-230.11	4,378.98	2,463.99	2,390.51	73.49	33.530	CC, ES
10,300.00	7,870.00	7,966.38	7,766.63	44.66	37.33	-89.50	-230.11	4,378.98	2,464.18	2,390.64	73.55	33.505	
10,400.00	7,870.00	7,966.65	7,766.90	44.56	37.33	-89.51	-230.11	4,378.98	2,467.45	2,393.57	73.88	33.400	
10,500.00	7,870.00	7,966.92	7,767.17	44.58	37.33	-89.52	-230.11	4,378.98	2,474.75	2,400.40	74.36	33.282	
10,600.00	7,870.00	7,967.19	7,767.44	44.82	37.33	-89.52	-230.11	4,378.98	2,486.06	2,411.09	74.98	33.158	
10,700.00	7,870.00	7,967.47	7,767.72	45.36	37.33	-89.53	-230.12	4,378.99	2,501.32	2,425.61	75.71	33.037	
10,800.00	7,870.00	7,967.74	7,767.99	46.15	37.33	-89.53	-230.12	4,378.99	2,520.46	2,443.91	76.55	32.926	
10,900.00	7,870.00	7,968.02	7,768.27	47.09	37.33	-89.54	-230.12	4,378.99	2,543.39	2,465.93	77.47	32.832	
11,000.00	7,870.00	7,968.30	7,768.55	48.13	37.33	-89.55	-230.12	4,378.99	2,570.01	2,491.56	78.45	32.762	
11,100.00	7,870.00	7,968.58	7,768.83	49.22	37.33	-89.55	-230.12	4,379.00	2,600.20	2,520.73	79.47	32.719	
11,200.00	7,870.00	7,968.87	7,769.11	50.37	37.33	-89.56	-230.12	4,379.00	2,633.85	2,553.32	80.52	32.709	SF
11,300.00	7,870.00	7,969.15	7,769.40	51.55	37.33	-89.57	-230.12	4,379.00	2,670.82	2,589.22	81.60	32.732	
11,400.00	7,870.00	7,969.44	7,769.68	52.76	37.33	-89.57	-230.12	4,379.00	2,710.97	2,628.30	82.67	32.792	
11,500.00	7,870.00	7,969.72	7,769.97	54.00	37.33	-89.58	-230.12	4,379.01	2,754.18	2,670.43	83.74	32.888	
11,600.00	7,870.00	7,970.01	7,770.26	55.27	37.33	-89.59	-230.12	4,379.01	2,800.28	2,715.48	84.80	33.021	
11,700.00	7,870.00	7,970.31	7,770.55	56.56	37.33	-89.59	-230.12	4,379.01	2,849.16	2,763.31	85.84	33.190	
11,800.00	7,870.00	7,970.60	7,770.85	57.88	37.34	-89.60	-230.12	4,379.01	2,900.65	2,813.80	86.86	33.395	
11,900.00	7,870.00	7,970.89	7,771.14	59.21	37.34	-89.61	-230.13	4,379.02	2,954.64	2,866.79	87.85	33.634	
12,000.00	7,870.00	7,971.19	7,771.44	60.57	37.34	-89.61	-230.13	4,379.02	3,010.98	2,922.18	88.80	33.906	
12,100.00	7,870.00	7,971.49	7,771.74	61.94	37.34	-89.62	-230.13	4,379.02	3,069.55	2,979.82	89.73	34.210	
12,200.00	7,870.00	7,971.79	7,772.04	63.33	37.34	-89.63	-230.13	4,379.02	3,130.21	3,039.60	90.61	34.544	
12,300.00	7,870.00	7,972.09	7,772.34	64.74	37.34	-89.64	-230.13	4,379.03	3,192.86	3,101.39	91.47	34.907	
12,400.00	7,870.00	7,972.40	7,772.65	66.16	37.34	-89.64	-230.13	4,379.03	3,257.37	3,165.08	92.29	35.297	
12,500.00	7,870.00	7,972.70	7,772.95	67.59	37.34	-89.65	-230.13	4,379.03	3,323.63	3,230.56	93.07	35.712	
12,600.00	7,870.00	7,973.01	7,773.26	69.04	37.34	-89.66	-230.13	4,379.03	3,391.55	3,297.74	93.82	36.151	
12,700.00	7,870.00	7,973.32	7,773.57	70.51	37.34	-89.66	-230.13	4,379.04	3,461.03	3,366.50	94.53	36.613	
12,800.00	7,870.00	7,973.63	7,773.88	71.98	37.34	-89.67	-230.13	4,379.04	3,531.97	3,436.76	95.21	37.096	
12,900.00	7,870.00	7,973.95	7,774.20	73.47	37.34	-89.68	-230.14	4,379.04	3,604.30	3,508.44	95.86	37.599	
13,000.00	7,870.00	7,974.26	7,774.51	74.96	37.34	-89.69	-230.14	4,379.05	3,677.91	3,581.43	96.48	38.121	
13,100.00	7,870.00	7,974.58	7,774.83	76.47	37.35	-89.69	-230.14	4,379.05	3,752.75	3,655.68	97.07	38.661	
13,200.00	7,870.00	7,974.90	7,775.15	77.99	37.35	-89.70	-230.14	4,379.05	3,828.74	3,731.11	97.63	39.217	
13,300.00	7,870.00	7,975.22	7,775.47	79.51	37.35	-89.71	-230.14	4,379.05	3,905.81	3,807.65	98.16	39.789	
13,400.00	7,870.00	7,975.55	7,775.79	81.05	37.35	-89.72	-230.14	4,379.06	3,983.90	3,885.23	98.67	40.375	
13,500.00	7,870.00	7,975.87	7,776.12	82.59	37.35	-89.72	-230.14	4,379.06	4,062.95	3,963.79	99.16	40.975	
13,600.00	7,870.00	7,976.20	7,776.45	84.14	37.35	-89.73	-230.14	4,379.06	4,142.91	4,043.29	99.62	41.588	
13,700.00	7,870.00	7,976.53	7,776.78	85.70	37.35	-89.74	-230.14	4,379.07	4,223.72	4,123.66	100.06	42.213	
13,800.00	7,870.00	7,976.86	7,777.11	87.26	37.35	-89.75	-230.14	4,379.07	4,305.33	4,204.85	100.48	42.849	
13,900.00	7,870.00	7,977.20	7,777.45	88.83	37.35	-89.75	-230.15	4,379.07	4,387.71	4,286.83	100.88	43.496	
14,000.00	7,870.00	7,977.54	7,777.78	90.41	37.35	-89.76	-230.15	4,379.07	4,470.80	4,369.55	101.26	44.154	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 109-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,977.87	7,778.12	92.00	37.35	-89.77	-230.15	4,379.08	4,554.58	4,452.96	101.62	44.820	
14,200.00	7,870.00	7,978.22	7,778.46	93.59	37.35	-89.78	-230.15	4,379.08	4,639.00	4,537.03	101.97	45.496	
14,300.00	7,870.00	7,978.56	7,778.81	95.18	37.35	-89.79	-230.15	4,379.08	4,724.02	4,621.73	102.30	46.180	
14,400.00	7,870.00	7,978.90	7,779.15	96.79	37.36	-89.79	-230.15	4,379.09	4,809.62	4,707.01	102.61	46.872	
14,500.00	7,870.00	7,979.25	7,779.50	98.39	37.36	-89.80	-230.15	4,379.09	4,895.77	4,792.86	102.92	47.571	
14,600.00	7,870.00	7,979.60	7,779.85	100.00	37.36	-89.81	-230.15	4,379.09	4,982.44	4,879.23	103.20	48.277	
14,700.00	7,870.00	7,979.96	7,780.20	101.62	37.36	-89.82	-230.15	4,379.10	5,069.59	4,966.11	103.48	48.990	
14,800.00	7,870.00	7,980.31	7,780.56	103.24	37.36	-89.83	-230.16	4,379.10	5,157.22	5,053.47	103.75	49.710	
14,900.00	7,870.00	7,980.67	7,780.91	104.87	37.36	-89.84	-230.16	4,379.10	5,245.28	5,141.28	104.00	50.435	
15,000.00	7,870.00	7,981.03	7,781.27	106.50	37.36	-89.84	-230.16	4,379.11	5,333.77	5,229.52	104.25	51.166	
15,100.00	7,870.00	7,981.39	7,781.64	108.13	37.36	-89.85	-230.16	4,379.11	5,422.65	5,318.17	104.48	51.902	
15,200.00	7,870.00	7,981.75	7,782.00	109.77	37.36	-89.86	-230.16	4,379.11	5,511.92	5,407.22	104.70	52.643	
15,300.00	7,870.00	7,982.12	7,782.37	111.41	37.36	-89.87	-230.16	4,379.12	5,601.55	5,496.63	104.92	53.388	
15,400.00	7,870.00	7,982.49	7,782.74	113.05	37.36	-89.88	-230.16	4,379.12	5,691.53	5,586.40	105.13	54.139	
15,500.00	7,870.00	7,982.86	7,783.11	114.70	37.37	-89.89	-230.16	4,379.12	5,781.83	5,676.50	105.33	54.893	
15,600.00	7,870.00	7,983.24	7,783.48	116.35	37.37	-89.89	-230.17	4,379.13	5,872.45	5,766.93	105.52	55.652	
15,700.00	7,870.00	7,983.61	7,783.86	118.00	37.37	-89.90	-230.17	4,379.13	5,963.37	5,857.66	105.71	56.414	
15,800.00	7,870.00	7,983.99	7,784.24	119.66	37.37	-89.91	-230.17	4,379.13	6,054.57	5,948.69	105.89	57.180	
15,900.00	7,870.00	7,984.38	7,784.62	121.32	37.37	-89.92	-230.17	4,379.14	6,146.05	6,039.99	106.06	57.949	
16,000.00	7,870.00	7,984.76	7,785.01	122.98	37.37	-89.93	-230.17	4,379.14	6,237.79	6,131.57	106.23	58.721	
16,100.00	7,870.00	7,985.15	7,785.40	124.65	37.37	-89.94	-230.17	4,379.14	6,329.78	6,223.39	106.39	59.497	
16,200.00	7,870.00	7,985.54	7,785.79	126.32	37.37	-89.95	-230.17	4,379.15	6,422.01	6,315.47	106.54	60.275	
16,300.00	7,870.00	7,985.93	7,786.18	127.99	37.37	-89.96	-230.18	4,379.15	6,514.47	6,407.78	106.70	61.056	
16,400.00	7,870.00	7,986.33	7,786.58	129.66	37.37	-89.97	-230.18	4,379.16	6,607.15	6,500.31	106.84	61.840	
16,500.00	7,870.00	7,986.73	7,786.97	131.33	37.37	-89.98	-230.18	4,379.16	6,700.04	6,593.06	106.99	62.626	
16,600.00	7,870.00	7,987.13	7,787.38	133.01	37.38	-89.99	-230.18	4,379.16	6,793.13	6,686.01	107.12	63.414	
16,700.00	7,870.00	7,987.53	7,787.78	134.69	37.38	-89.99	-230.18	4,379.17	6,886.42	6,779.16	107.26	64.205	
16,800.00	7,870.00	7,987.94	7,788.19	136.37	37.38	-90.00	-230.18	4,379.17	6,979.89	6,872.50	107.39	64.997	
16,900.00	7,870.00	7,988.35	7,788.60	138.06	37.38	-90.01	-230.18	4,379.17	7,073.54	6,966.02	107.51	65.792	
17,000.00	7,870.00	7,988.76	7,789.01	139.74	37.38	-90.02	-230.19	4,379.18	7,167.36	7,059.72	107.64	66.588	
17,100.00	7,870.00	7,989.18	7,789.43	141.43	37.38	-90.03	-230.19	4,379.18	7,261.34	7,153.59	107.76	67.387	
17,200.00	7,870.00	7,989.60	7,789.85	143.12	37.38	-90.04	-230.19	4,379.19	7,355.49	7,247.61	107.87	68.186	
17,300.00	7,870.00	7,990.02	7,790.27	144.81	37.38	-90.05	-230.19	4,379.19	7,449.78	7,341.80	107.99	68.988	
17,400.00	7,870.00	7,990.45	7,790.69	146.50	37.38	-90.06	-230.19	4,379.19	7,544.23	7,436.13	108.10	69.791	
17,500.00	7,870.00	7,990.88	7,791.12	148.19	37.38	-90.07	-230.19	4,379.20	7,638.81	7,530.61	108.21	70.595	
17,600.00	7,870.00	7,991.31	7,791.55	149.89	37.39	-90.08	-230.19	4,379.20	7,733.54	7,625.22	108.31	71.400	
17,700.00	7,870.00	7,991.74	7,791.99	151.59	37.39	-90.09	-230.20	4,379.21	7,828.39	7,719.97	108.42	72.207	
17,800.00	7,870.00	7,992.18	7,792.43	153.29	37.39	-90.10	-230.20	4,379.21	7,923.37	7,814.85	108.52	73.015	
17,900.00	7,870.00	7,992.62	7,792.87	154.99	37.39	-90.11	-230.20	4,379.21	8,018.47	7,909.85	108.62	73.824	
18,000.00	7,870.00	7,993.07	7,793.31	156.69	37.39	-90.12	-230.20	4,379.22	8,113.69	8,004.97	108.71	74.634	
18,100.00	7,870.00	7,993.51	7,793.76	158.39	37.39	-90.13	-230.20	4,379.22	8,209.02	8,100.21	108.81	75.445	
18,200.00	7,870.00	7,993.97	7,794.21	160.09	37.39	-90.14	-230.20	4,379.23	8,304.46	8,195.56	108.90	76.257	
18,300.00	7,870.00	7,994.42	7,794.67	161.80	37.39	-90.16	-230.21	4,379.23	8,400.01	8,291.02	108.99	77.069	
18,400.00	7,870.00	7,994.88	7,795.13	163.51	37.39	-90.17	-230.21	4,379.24	8,495.66	8,386.58	109.08	77.882	
18,455.45	7,870.00	7,995.13	7,795.38	164.45	37.40	-90.17	-230.21	4,379.24	8,548.74	8,439.61	109.13	78.334	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.46	-2,069.79	2,183.92	3,009.28				
100.00	100.00	70.71	70.70	0.13	0.12	133.46	-2,069.69	2,183.74	3,008.76	3,008.51	0.25	N/A	
200.00	200.00	184.18	184.17	0.49	0.42	133.47	-2,069.12	2,182.82	3,007.82	3,006.90	0.91	3,291.951	
300.00	300.00	299.43	299.42	0.85	0.83	133.47	-2,068.14	2,181.80	3,006.59	3,004.91	1.69	1,784.100	
400.00	400.00	394.91	394.89	1.21	1.18	133.47	-2,067.14	2,180.79	3,005.11	3,002.72	2.39	1,259.698	
500.00	500.00	484.62	484.59	1.57	1.50	133.46	-2,066.04	2,180.33	3,003.89	3,000.83	3.06	980.815	
600.00	600.00	645.74	645.66	1.93	2.07	133.43	-2,062.64	2,178.67	3,001.61	2,997.61	4.00	751.021	
700.00	700.00	765.94	765.78	2.29	2.51	133.41	-2,059.02	2,176.37	2,998.14	2,993.36	4.79	626.475	
800.00	800.00	856.22	856.00	2.64	2.83	133.39	-2,055.91	2,174.86	2,994.56	2,989.09	5.47	547.675	
900.00	900.00	1,738.59	1,723.33	3.00	6.51	133.01	-1,945.47	2,085.45	2,981.85	2,972.95	8.90	335.046	
1,000.00	1,000.00	2,020.10	1,989.57	3.36	8.12	132.83	-1,876.96	2,025.16	2,949.36	2,939.13	10.24	288.116	
1,100.00	1,100.00	2,171.36	2,130.50	3.72	9.09	132.70	-1,835.53	1,989.10	2,913.20	2,902.06	11.14	261.612	
1,200.00	1,200.00	2,226.17	2,181.58	4.08	9.45	132.66	-1,820.70	1,975.85	2,876.97	2,865.25	11.72	245.491	
1,300.00	1,300.00	2,303.75	2,254.10	4.44	9.96	132.61	-1,800.30	1,957.35	2,841.57	2,829.18	12.38	229.496	
1,400.00	1,399.98	2,390.23	2,335.05	4.79	10.53	90.40	-1,778.17	1,936.45	2,806.45	2,793.37	13.07	214.649	
1,500.00	1,499.84	2,476.80	2,416.13	5.15	11.10	91.19	-1,755.52	1,916.31	2,771.60	2,757.83	13.77	201.285	
1,600.00	1,599.45	2,579.69	2,512.53	5.51	11.79	92.05	-1,728.16	1,892.93	2,736.95	2,722.43	14.52	188.462	
1,700.00	1,698.70	2,683.24	2,609.31	5.87	12.49	93.02	-1,700.63	1,868.47	2,701.77	2,686.49	15.28	176.773	
1,800.00	1,797.47	2,765.82	2,686.53	6.24	13.05	94.01	-1,678.71	1,849.06	2,666.93	2,650.94	15.99	166.790	
1,900.00	1,895.62	2,876.19	2,789.78	6.63	13.81	95.17	-1,649.05	1,823.79	2,632.65	2,615.85	16.80	156.743	
2,000.00	1,993.06	3,021.71	2,925.01	7.04	14.85	96.64	-1,608.84	1,788.13	2,597.01	2,579.29	17.72	146.532	
2,100.00	2,089.64	3,111.49	3,008.10	7.48	15.50	97.94	-1,583.35	1,765.62	2,561.08	2,542.57	18.51	138.365	
2,200.00	2,185.27	3,177.06	3,068.94	7.94	15.97	99.14	-1,565.29	1,749.13	2,526.37	2,507.11	19.26	131.191	
2,300.00	2,279.82	3,266.63	3,152.23	8.45	16.62	100.56	-1,541.00	1,726.88	2,493.04	2,472.93	20.11	123.993	
2,400.00	2,373.17	3,363.53	3,242.22	8.99	17.32	102.10	-1,514.16	1,703.00	2,460.48	2,439.47	21.01	117.087	
2,500.00	2,465.21	3,472.19	3,342.91	9.58	18.12	103.86	-1,483.91	1,675.52	2,428.66	2,406.67	21.99	110.424	
2,574.08	2,532.50	3,569.35	3,432.49	10.04	18.85	105.40	-1,455.90	1,650.42	2,405.26	2,382.48	22.79	105.554	
2,600.00	2,555.89	3,585.89	3,447.70	10.21	18.98	105.59	-1,451.02	1,646.11	2,397.12	2,374.09	23.03	104.093	
2,700.00	2,646.16	3,646.75	3,503.82	10.88	19.43	106.28	-1,433.26	1,630.65	2,366.72	2,342.74	23.98	98.701	
2,800.00	2,736.44	3,704.45	3,557.26	11.57	19.86	106.95	-1,416.75	1,616.48	2,338.02	2,313.07	24.95	93.714	
2,900.00	2,826.71	3,761.44	3,610.31	12.27	20.28	107.62	-1,401.06	1,602.77	2,311.20	2,285.26	25.94	89.098	
3,000.00	2,916.98	3,857.56	3,699.92	13.00	20.97	108.75	-1,374.71	1,580.09	2,285.58	2,258.54	27.04	84.539	
3,100.00	3,007.25	3,972.70	3,806.78	13.73	21.81	110.17	-1,342.68	1,551.62	2,259.86	2,231.68	28.19	80.175	
3,200.00	3,097.52	4,052.61	3,880.84	14.48	22.41	111.16	-1,320.17	1,531.78	2,234.80	2,205.51	29.28	76.313	
3,300.00	3,187.80	4,124.88	3,947.96	15.23	22.94	112.06	-1,299.73	1,514.46	2,211.05	2,180.67	30.38	72.775	
3,400.00	3,278.07	4,201.73	4,019.49	15.99	23.50	113.03	-1,278.23	1,496.37	2,188.70	2,157.20	31.50	69.481	
3,500.00	3,368.34	4,296.54	4,107.76	16.76	24.19	114.25	-1,251.98	1,473.84	2,167.45	2,134.79	32.66	66.359	
3,600.00	3,458.61	4,393.92	4,198.21	17.54	24.91	115.52	-1,224.34	1,450.62	2,146.63	2,112.79	33.84	63.435	
3,700.00	3,548.89	4,472.03	4,270.69	18.32	25.48	116.57	-1,202.27	1,431.61	2,126.73	2,091.73	35.00	60.764	
3,800.00	3,639.16	4,539.07	4,333.05	19.10	25.97	117.47	-1,183.64	1,415.55	2,108.47	2,072.31	36.15	58.320	
3,900.00	3,729.43	4,598.93	4,388.98	19.89	26.40	118.28	-1,167.56	1,401.56	2,092.29	2,054.99	37.30	56.090	
4,000.00	3,819.70	4,653.02	4,439.78	20.69	26.78	119.02	-1,153.61	1,389.28	2,078.42	2,039.97	38.44	54.068	
4,100.00	3,909.98	4,704.00	4,487.94	21.48	27.13	119.72	-1,141.07	1,378.21	2,067.06	2,027.49	39.57	52.236	
4,200.00	4,000.25	4,761.01	4,542.09	22.28	27.49	120.49	-1,127.74	1,366.37	2,058.23	2,017.52	40.70	50.567	
4,300.00	4,090.52	4,798.00	4,577.38	23.08	27.73	120.99	-1,119.49	1,358.99	2,052.03	2,010.25	41.78	49.115	
4,400.00	4,180.79	4,860.30	4,637.17	23.88	28.10	121.82	-1,106.52	1,347.25	2,048.39	2,005.50	42.90	47.751	
4,476.57	4,249.92	4,897.92	4,673.50	24.50	28.32	122.32	-1,099.32	1,340.64	2,047.62	2,003.90	43.72	46.838	
4,500.00	4,271.06	4,913.35	4,688.44	24.69	28.40	122.53	-1,096.47	1,338.02	2,047.68	2,003.71	43.97	46.565	
4,600.00	4,361.34	4,979.60	4,752.69	25.49	28.76	123.39	-1,084.51	1,327.22	2,049.20	2,004.13	45.07	45.467	
4,700.00	4,451.61	5,036.61	4,808.19	26.30	29.06	124.12	-1,074.79	1,318.51	2,052.90	2,006.79	46.12	44.516	
4,800.00	4,541.88	5,094.06	4,864.33	27.11	29.35	124.85	-1,065.80	1,310.25	2,059.04	2,011.89	47.14	43.677	
4,900.00	4,632.15	5,157.25	4,926.26	27.92	29.65	125.64	-1,056.63	1,301.70	2,067.37	2,019.20	48.16	42.925	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 122-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	5,209.37	4,977.51	28.74	29.88	126.28	-1,049.67	1,295.24	2,077.93	2,028.82	49.11	42.311	
5,100.00	4,812.70	5,270.00	5,037.43	29.55	30.14	126.98	-1,042.68	1,289.20	2,091.23	2,041.17	50.06	41.773	
5,200.00	4,902.97	5,312.08	5,079.15	30.37	30.30	127.45	-1,038.48	1,285.79	2,106.89	2,056.00	50.89	41.398	
5,300.00	4,993.24	5,365.00	5,131.74	31.18	30.49	128.03	-1,033.78	1,282.06	2,124.80	2,073.06	51.74	41.069	
5,400.00	5,083.51	5,429.72	5,196.17	32.00	30.70	128.70	-1,028.88	1,278.42	2,144.72	2,092.12	52.60	40.777	
5,500.00	5,173.79	5,491.36	5,257.63	32.82	30.89	129.32	-1,025.00	1,275.96	2,166.54	2,113.13	53.41	40.563	
5,600.00	5,264.06	5,553.00	5,319.17	33.63	31.07	129.90	-1,021.80	1,274.51	2,190.11	2,135.91	54.20	40.409	
5,700.00	5,354.33	5,608.62	5,374.75	34.45	31.21	130.40	-1,019.68	1,273.81	2,215.54	2,160.62	54.92	40.340	
5,800.00	5,444.60	5,665.96	5,432.07	35.27	31.35	130.91	-1,018.45	1,273.34	2,242.92	2,187.30	55.63	40.320	
5,900.00	5,534.88	5,732.25	5,498.35	36.09	31.51	131.49	-1,017.81	1,272.89	2,271.87	2,215.51	56.36	40.311	
6,000.00	5,625.15	5,819.59	5,585.70	36.91	31.70	132.24	-1,017.54	1,272.56	2,301.85	2,244.65	57.19	40.249	
6,100.00	5,715.42	5,924.79	5,690.89	37.74	31.94	133.10	-1,016.92	1,272.32	2,331.99	2,273.87	58.11	40.128	
6,200.00	5,805.69	6,013.44	5,779.54	38.56	32.15	133.83	-1,016.09	1,271.63	2,362.19	2,303.25	58.94	40.078	
6,300.00	5,895.96	6,105.86	5,871.95	39.38	32.38	134.57	-1,015.25	1,270.79	2,392.82	2,333.04	59.78	40.027	
6,400.00	5,986.24	6,191.89	5,957.97	40.20	32.58	135.25	-1,014.48	1,269.88	2,423.82	2,363.25	60.57	40.014	
6,500.00	6,076.51	6,280.62	6,046.69	41.03	32.80	135.94	-1,013.82	1,268.83	2,455.34	2,393.97	61.37	40.006	
6,600.00	6,166.78	6,373.59	6,139.65	41.85	33.03	136.64	-1,013.10	1,267.75	2,487.18	2,424.99	62.19	39.992	
6,700.00	6,257.05	6,461.91	6,227.97	42.67	33.25	137.29	-1,012.36	1,266.85	2,519.30	2,456.32	62.97	40.005	
6,800.00	6,347.33	6,547.02	6,313.07	43.50	33.46	137.89	-1,011.80	1,266.21	2,551.89	2,488.16	63.73	40.042	
6,900.00	6,437.60	6,635.46	6,401.51	44.32	33.67	138.50	-1,011.41	1,265.97	2,584.95	2,520.46	64.49	40.082	
7,000.00	6,527.87	6,727.07	6,493.12	45.15	33.89	139.09	-1,011.02	1,266.43	2,618.25	2,552.99	65.26	40.119	
7,100.00	6,618.14	6,822.72	6,588.77	45.98	34.12	139.71	-1,010.54	1,266.36	2,651.79	2,585.73	66.05	40.146	
7,200.00	6,708.41	6,914.96	6,681.00	46.80	34.35	140.30	-1,009.75	1,266.04	2,685.29	2,618.47	66.82	40.184	
7,300.00	6,798.69	6,998.85	6,764.89	47.63	34.57	140.83	-1,009.25	1,265.65	2,719.30	2,651.76	67.54	40.261	
7,400.00	6,888.96	7,095.14	6,861.18	48.45	34.81	141.42	-1,008.65	1,265.42	2,753.51	2,685.18	68.33	40.300	
7,500.00	6,979.23	7,191.05	6,957.08	49.28	35.05	141.98	-1,007.92	1,265.68	2,787.77	2,718.67	69.10	40.345	
7,600.00	7,069.50	7,285.40	7,051.43	50.11	35.29	142.51	-1,007.01	1,265.91	2,822.07	2,752.21	69.86	40.396	
7,692.09	7,152.63	7,373.84	7,139.86	50.87	35.52	143.02	-1,006.03	1,265.57	2,853.82	2,783.25	70.57	40.439	
7,700.00	7,159.79	7,383.22	7,149.24	50.93	35.55	141.82	-1,005.90	1,265.49	2,856.49	2,785.85	70.64	40.436	
7,750.00	7,205.70	7,443.35	7,209.36	51.32	35.71	132.87	-1,004.89	1,264.92	2,870.89	2,799.80	71.09	40.382	
7,800.00	7,252.52	7,492.22	7,258.22	51.66	35.85	121.26	-1,003.90	1,264.25	2,881.05	2,809.57	71.48	40.306	
7,850.00	7,299.89	7,541.52	7,307.50	51.96	35.99	107.23	-1,002.82	1,263.38	2,887.00	2,815.14	71.86	40.176	
7,900.00	7,347.44	7,579.49	7,345.45	52.20	36.10	92.09	-1,002.06	1,262.75	2,888.82	2,816.66	72.16	40.033	
7,950.00	7,394.83	7,618.35	7,384.30	52.39	36.21	78.04	-1,001.42	1,262.28	2,886.56	2,814.10	72.45	39.840	
8,000.00	7,441.68	7,654.26	7,420.21	52.53	36.30	66.51	-1,000.99	1,262.08	2,880.26	2,807.55	72.71	39.614	
8,050.00	7,487.65	7,688.56	7,454.51	52.62	36.39	57.75	-1,000.80	1,262.35	2,870.01	2,797.08	72.93	39.351	
8,100.00	7,532.37	7,725.00	7,490.94	52.67	36.48	51.35	-1,000.85	1,263.15	2,855.88	2,782.72	73.16	39.037	
8,150.00	7,575.52	7,761.22	7,527.14	52.67	36.56	46.78	-1,001.03	1,264.06	2,837.92	2,764.55	73.36	38.683	
8,200.00	7,616.76	7,798.67	7,564.59	52.63	36.65	43.62	-1,001.20	1,264.68	2,816.20	2,742.63	73.57	38.282	
8,250.00	7,655.77	7,832.20	7,598.12	52.55	36.73	41.52	-1,001.35	1,264.97	2,790.90	2,717.16	73.74	37.850	
8,300.00	7,692.27	7,861.37	7,627.29	52.44	36.80	40.28	-1,001.53	1,265.07	2,762.24	2,688.37	73.88	37.390	
8,350.00	7,725.97	7,888.34	7,654.26	52.29	36.86	39.81	-1,001.74	1,265.05	2,730.44	2,656.44	74.00	36.898	
8,400.00	7,756.62	7,914.00	7,679.92	52.12	36.92	40.09	-1,001.98	1,264.93	2,695.72	2,621.60	74.11	36.373	
8,450.00	7,783.98	7,934.25	7,700.16	51.92	36.97	41.07	-1,002.21	1,264.77	2,658.31	2,584.11	74.20	35.828	
8,500.00	7,807.85	7,952.95	7,718.87	51.70	37.02	42.93	-1,002.45	1,264.60	2,618.49	2,544.22	74.28	35.253	
8,550.00	7,828.05	7,968.96	7,734.87	51.45	37.05	45.83	-1,002.69	1,264.43	2,576.53	2,502.18	74.35	34.656	
8,600.00	7,844.41	7,982.14	7,748.04	51.20	37.09	50.10	-1,002.90	1,264.27	2,532.72	2,458.31	74.41	34.038	
8,650.00	7,856.82	7,992.36	7,758.26	50.93	37.11	56.26	-1,003.08	1,264.13	2,487.36	2,412.89	74.47	33.402	
8,700.00	7,865.18	7,999.52	7,765.42	50.65	37.13	65.05	-1,003.21	1,264.03	2,440.76	2,366.25	74.52	32.753	
8,750.00	7,869.43	8,003.54	7,769.45	50.36	37.14	77.34	-1,003.28	1,263.98	2,393.27	2,318.70	74.57	32.094	
8,776.25	7,870.00	8,004.38	7,770.28	50.21	37.14	85.35	-1,003.30	1,263.96	2,368.09	2,293.49	74.60	31.744	
8,800.00	7,870.00	8,004.73	7,770.64	50.08	37.14	85.38	-1,003.31	1,263.96	2,345.27	2,270.64	74.62	31.428	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 122-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,008.00	7,773.90	49.53	37.15	85.67	-1,003.37	1,263.91	2,249.36	2,174.62	74.75	30.093	
9,000.00	7,870.00	8,008.00	7,773.90	49.01	37.15	85.67	-1,003.37	1,263.91	2,153.83	2,078.97	74.85	28.773	
9,100.00	7,870.00	8,009.86	7,775.76	48.52	37.15	85.83	-1,003.40	1,263.88	2,058.72	1,983.73	74.99	27.452	
9,200.00	7,870.00	8,012.05	7,777.95	48.06	37.16	86.03	-1,003.45	1,263.85	1,964.09	1,888.94	75.15	26.136	
9,300.00	7,870.00	8,014.22	7,780.12	47.63	37.16	86.22	-1,003.49	1,263.82	1,870.02	1,794.70	75.32	24.826	
9,400.00	7,870.00	8,016.38	7,782.28	47.22	37.17	86.41	-1,003.53	1,263.79	1,776.60	1,701.07	75.52	23.525	
9,500.00	7,870.00	8,018.52	7,784.42	46.83	37.17	86.60	-1,003.57	1,263.76	1,683.92	1,608.18	75.74	22.233	
9,600.00	7,870.00	8,020.65	7,786.55	46.48	37.18	86.78	-1,003.61	1,263.73	1,592.14	1,516.15	75.99	20.952	
9,700.00	7,870.00	8,022.77	7,788.67	46.14	37.18	86.97	-1,003.65	1,263.70	1,501.39	1,425.12	76.27	19.685	
9,800.00	7,870.00	8,024.87	7,790.77	45.83	37.19	87.16	-1,003.69	1,263.67	1,411.90	1,335.31	76.59	18.435	
9,900.00	7,870.00	8,026.96	7,792.86	45.54	37.19	87.34	-1,003.73	1,263.64	1,323.91	1,246.96	76.95	17.205	
10,000.00	7,870.00	8,029.04	7,794.93	45.27	37.20	87.52	-1,003.77	1,263.62	1,237.74	1,160.39	77.36	16.001	
10,100.00	7,870.00	8,031.10	7,796.99	45.03	37.20	87.70	-1,003.81	1,263.59	1,153.80	1,075.99	77.82	14.827	
10,200.00	7,870.00	8,033.15	7,799.04	44.82	37.21	87.89	-1,003.84	1,263.56	1,072.62	994.29	78.33	13.693	
10,300.00	7,870.00	8,035.18	7,801.08	44.66	37.21	88.06	-1,003.88	1,263.54	994.87	915.96	78.91	12.608	
10,400.00	7,870.00	8,037.21	7,803.10	44.56	37.22	88.24	-1,003.92	1,263.51	921.41	841.88	79.53	11.586	
10,500.00	7,870.00	8,039.22	7,805.11	44.58	37.22	88.42	-1,003.96	1,263.49	853.36	773.19	80.17	10.644	
10,600.00	7,870.00	8,041.21	7,807.11	44.82	37.23	88.60	-1,003.99	1,263.47	792.11	711.33	80.79	9.805	
10,700.00	7,870.00	8,043.20	7,809.09	45.36	37.23	88.77	-1,004.03	1,263.44	739.36	658.07	81.29	9.095	
10,800.00	7,870.00	8,045.17	7,811.06	46.15	37.24	88.95	-1,004.07	1,263.42	697.04	615.46	81.58	8.545	
10,900.00	7,870.00	8,047.13	7,813.02	47.09	37.24	89.12	-1,004.10	1,263.40	667.13	585.63	81.50	8.186	
11,000.00	7,870.00	8,049.08	7,814.97	48.13	37.25	89.29	-1,004.14	1,263.38	651.35	570.39	80.96	8.045	SF
11,054.08	7,870.00	8,050.12	7,816.02	48.71	37.25	89.38	-1,004.16	1,263.37	649.10	568.62	80.48	8.065	CC, ES
11,100.00	7,870.00	8,051.01	7,816.90	49.22	37.25	89.46	-1,004.17	1,263.36	650.72	570.75	79.97	8.137	
11,200.00	7,870.00	8,052.94	7,818.83	50.37	37.26	89.63	-1,004.21	1,263.34	665.30	586.64	78.66	8.458	
11,300.00	7,870.00	8,054.85	7,820.74	51.55	37.26	89.80	-1,004.24	1,263.32	694.11	616.89	77.22	8.989	
11,400.00	7,870.00	8,056.75	7,822.64	52.76	37.27	89.97	-1,004.27	1,263.30	735.50	659.64	75.86	9.696	
11,500.00	7,870.00	8,058.64	7,824.52	54.00	37.27	90.13	-1,004.31	1,263.28	787.47	712.79	74.68	10.544	
11,600.00	7,870.00	8,060.51	7,826.40	55.27	37.27	90.30	-1,004.34	1,263.26	848.09	774.35	73.74	11.501	
11,700.00	7,870.00	8,062.38	7,828.26	56.56	37.28	90.46	-1,004.37	1,263.24	915.65	842.63	73.02	12.540	
11,800.00	7,870.00	8,064.23	7,830.12	57.88	37.28	90.63	-1,004.41	1,263.22	988.71	916.23	72.48	13.641	
11,900.00	7,870.00	8,066.07	7,831.96	59.21	37.29	90.79	-1,004.44	1,263.21	1,066.15	994.06	72.09	14.789	
12,000.00	7,870.00	8,067.90	7,833.79	60.57	37.29	90.95	-1,004.47	1,263.19	1,147.08	1,075.27	71.81	15.974	
12,100.00	7,870.00	8,069.72	7,835.61	61.94	37.30	91.11	-1,004.50	1,263.17	1,230.82	1,159.21	71.61	17.187	
12,200.00	7,870.00	8,071.53	7,837.42	63.33	37.30	91.27	-1,004.54	1,263.16	1,316.83	1,245.35	71.48	18.422	
12,300.00	7,870.00	8,073.33	7,839.22	64.74	37.31	91.43	-1,004.57	1,263.14	1,404.68	1,333.29	71.39	19.676	
12,400.00	7,870.00	8,075.12	7,841.00	66.16	37.31	91.59	-1,004.60	1,263.13	1,494.07	1,422.73	71.34	20.944	
12,500.00	7,870.00	8,076.90	7,842.78	67.59	37.31	91.74	-1,004.63	1,263.11	1,584.72	1,513.41	71.31	22.224	
12,600.00	7,870.00	8,078.66	7,844.55	69.04	37.32	91.90	-1,004.66	1,263.10	1,676.43	1,605.14	71.29	23.514	
12,700.00	7,870.00	8,080.42	7,846.30	70.51	37.32	92.06	-1,004.69	1,263.08	1,769.04	1,697.74	71.30	24.812	
12,800.00	7,870.00	8,082.16	7,848.05	71.98	37.33	92.21	-1,004.72	1,263.07	1,862.41	1,791.10	71.31	26.117	
12,900.00	7,870.00	8,083.90	7,849.78	73.47	37.33	92.36	-1,004.75	1,263.06	1,956.44	1,885.10	71.33	27.427	
13,000.00	7,870.00	8,085.62	7,851.51	74.96	37.33	92.51	-1,004.78	1,263.04	2,051.02	1,979.66	71.36	28.742	
13,100.00	7,870.00	8,087.34	7,853.22	76.47	37.34	92.66	-1,004.81	1,263.03	2,146.10	2,074.71	71.39	30.061	
13,200.00	7,870.00	8,089.04	7,854.93	77.99	37.34	92.81	-1,004.84	1,263.02	2,241.61	2,170.18	71.43	31.383	
13,300.00	7,870.00	8,090.74	7,856.62	79.51	37.35	92.96	-1,004.87	1,263.01	2,337.49	2,266.02	71.47	32.707	
13,400.00	7,870.00	8,092.42	7,858.31	81.05	37.35	93.11	-1,004.89	1,263.00	2,433.70	2,362.19	71.51	34.034	
13,500.00	7,870.00	8,094.10	7,859.98	82.59	37.36	93.26	-1,004.92	1,262.99	2,530.20	2,458.65	71.55	35.363	
13,600.00	7,870.00	8,095.76	7,861.65	84.14	37.36	93.41	-1,004.95	1,262.98	2,626.97	2,555.37	71.59	36.693	
13,700.00	7,870.00	8,097.42	7,863.30	85.70	37.36	93.55	-1,004.98	1,262.97	2,723.96	2,652.33	71.64	38.024	
13,800.00	7,870.00	8,099.07	7,864.95	87.26	37.37	93.70	-1,005.01	1,262.96	2,821.17	2,749.49	71.68	39.355	
13,900.00	7,870.00	8,100.70	7,866.59	88.83	37.37	93.84	-1,005.03	1,262.95	2,918.56	2,846.83	71.73	40.688	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 122-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	8,102.33	7,868.21	90.41	37.38	93.98	-1,005.06	1,262.94	3,016.13	2,944.35	71.78	42.021	
14,100.00	7,870.00	8,103.95	7,869.83	92.00	37.38	94.12	-1,005.09	1,262.93	3,113.84	3,042.02	71.82	43.354	
14,200.00	7,870.00	8,105.56	7,871.44	93.59	37.38	94.27	-1,005.11	1,262.92	3,211.70	3,139.83	71.87	44.687	
14,300.00	7,870.00	8,107.16	7,873.04	95.18	37.39	94.41	-1,005.14	1,262.91	3,309.68	3,237.76	71.92	46.019	
14,400.00	7,870.00	8,108.75	7,874.63	96.79	37.39	94.54	-1,005.17	1,262.90	3,407.78	3,335.82	71.97	47.352	
14,500.00	7,870.00	8,110.33	7,876.21	98.39	37.39	94.68	-1,005.19	1,262.89	3,505.99	3,433.97	72.02	48.684	
14,600.00	7,870.00	8,111.77	7,877.65	100.00	37.40	94.81	-1,005.21	1,262.89	3,604.30	3,532.23	72.06	50.015	
14,700.00	7,870.00	8,113.29	7,879.17	101.62	37.40	94.94	-1,005.24	1,262.88	3,702.69	3,630.58	72.11	51.346	
14,800.00	7,870.00	8,114.81	7,880.69	103.24	37.40	95.08	-1,005.26	1,262.88	3,801.17	3,729.01	72.16	52.676	
14,900.00	7,870.00	8,116.31	7,882.18	104.87	37.41	95.21	-1,005.29	1,262.87	3,899.72	3,827.51	72.21	54.005	
15,000.00	7,870.00	8,117.79	7,883.67	106.50	37.41	95.34	-1,005.31	1,262.87	3,998.35	3,926.09	72.26	55.333	
15,100.00	7,870.00	8,119.27	7,885.14	108.13	37.42	95.46	-1,005.33	1,262.86	4,097.04	4,024.73	72.31	56.660	
15,200.00	7,870.00	8,120.73	7,886.61	109.77	37.42	95.59	-1,005.36	1,262.86	4,195.79	4,123.44	72.36	57.986	
15,300.00	7,870.00	8,122.18	7,888.05	111.41	37.42	95.72	-1,005.38	1,262.86	4,294.61	4,222.20	72.41	59.311	
15,400.00	7,870.00	8,123.61	7,889.49	113.05	37.43	95.84	-1,005.40	1,262.85	4,393.47	4,321.01	72.46	60.634	
15,500.00	7,870.00	8,125.04	7,890.92	114.70	37.43	95.97	-1,005.42	1,262.85	4,492.38	4,419.87	72.51	61.956	
15,600.00	7,870.00	8,126.45	7,892.33	116.35	37.43	96.09	-1,005.45	1,262.85	4,591.34	4,518.78	72.56	63.276	
15,700.00	7,870.00	8,127.85	7,893.73	118.00	37.44	96.21	-1,005.47	1,262.84	4,690.35	4,617.74	72.61	64.596	
15,800.00	7,870.00	8,129.25	7,895.12	119.66	37.44	96.34	-1,005.49	1,262.84	4,789.39	4,716.73	72.66	65.913	
15,900.00	7,870.00	8,130.62	7,896.50	121.32	37.44	96.46	-1,005.51	1,262.84	4,888.48	4,815.76	72.71	67.229	
16,000.00	7,870.00	8,131.99	7,897.87	122.98	37.45	96.57	-1,005.53	1,262.84	4,987.60	4,914.83	72.77	68.543	
16,100.00	7,870.00	8,133.35	7,899.23	124.65	37.45	96.69	-1,005.55	1,262.84	5,086.75	5,013.93	72.82	69.856	
16,200.00	7,870.00	8,134.70	7,900.57	126.32	37.45	96.81	-1,005.57	1,262.84	5,185.93	5,113.06	72.87	71.167	
16,300.00	7,870.00	8,136.03	7,901.91	127.99	37.45	96.93	-1,005.59	1,262.84	5,285.15	5,212.23	72.92	72.476	
16,400.00	7,870.00	8,137.36	7,903.23	129.66	37.46	97.04	-1,005.61	1,262.84	5,384.40	5,311.42	72.98	73.783	
16,500.00	7,870.00	8,138.67	7,904.55	131.33	37.46	97.16	-1,005.63	1,262.84	5,483.67	5,410.64	73.03	75.088	
16,600.00	7,870.00	8,139.97	7,905.85	133.01	37.46	97.27	-1,005.65	1,262.84	5,582.96	5,509.88	73.08	76.392	
16,700.00	7,870.00	8,141.27	7,907.14	134.69	37.47	97.38	-1,005.67	1,262.84	5,682.29	5,609.15	73.14	77.693	
16,800.00	7,870.00	8,142.55	7,908.43	136.37	37.47	97.49	-1,005.69	1,262.84	5,781.63	5,708.44	73.19	78.992	
16,900.00	7,870.00	8,143.82	7,909.70	138.06	37.47	97.60	-1,005.71	1,262.84	5,881.00	5,807.75	73.25	80.290	
17,000.00	7,870.00	8,145.09	7,910.96	139.74	37.48	97.71	-1,005.73	1,262.84	5,980.38	5,907.08	73.30	81.585	
17,100.00	7,870.00	8,146.34	7,912.22	141.43	37.48	97.82	-1,005.75	1,262.84	6,079.79	6,006.43	73.36	82.878	
17,200.00	7,870.00	8,147.58	7,913.46	143.12	37.48	97.93	-1,005.76	1,262.85	6,179.22	6,105.80	73.41	84.169	
17,300.00	7,870.00	8,148.82	7,914.69	144.81	37.49	98.03	-1,005.78	1,262.85	6,278.66	6,205.19	73.47	85.458	
17,400.00	7,870.00	8,150.04	7,915.92	146.50	37.49	98.14	-1,005.80	1,262.85	6,378.12	6,304.60	73.53	86.745	
17,500.00	7,870.00	8,151.26	7,917.13	148.19	37.49	98.25	-1,005.82	1,262.85	6,477.60	6,404.02	73.58	88.029	
17,600.00	7,870.00	8,152.46	7,918.34	149.89	37.49	98.35	-1,005.83	1,262.86	6,577.09	6,503.45	73.64	89.311	
17,700.00	7,870.00	8,153.66	7,919.54	151.59	37.50	98.45	-1,005.85	1,262.86	6,676.60	6,602.90	73.70	90.591	
17,800.00	7,870.00	8,154.85	7,920.72	153.29	37.50	98.56	-1,005.87	1,262.86	6,776.12	6,702.36	73.76	91.868	
17,900.00	7,870.00	8,156.03	7,921.90	154.99	37.50	98.66	-1,005.88	1,262.87	6,875.66	6,801.84	73.82	93.143	
18,000.00	7,870.00	8,157.20	7,923.07	156.69	37.51	98.76	-1,005.90	1,262.87	6,975.21	6,901.33	73.88	94.416	
18,100.00	7,870.00	8,158.36	7,924.23	158.39	37.51	98.86	-1,005.92	1,262.87	7,074.77	7,000.83	73.94	95.686	
18,200.00	7,870.00	8,159.51	7,925.39	160.09	37.51	98.96	-1,005.93	1,262.88	7,174.34	7,100.34	74.00	96.953	
18,300.00	7,870.00	8,160.66	7,926.53	161.80	37.51	99.06	-1,005.95	1,262.88	7,273.93	7,199.87	74.06	98.219	
18,400.00	7,870.00	8,161.79	7,927.66	163.51	37.52	99.15	-1,005.97	1,262.89	7,373.52	7,299.40	74.12	99.481	
18,455.45	7,870.00	8,162.42	7,928.29	164.45	37.52	99.21	-1,005.97	1,262.89	7,428.75	7,354.60	74.15	100.180	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.62	-2,073.43	2,175.52	3,005.70				
100.00	100.00	61.57	61.57	0.13	0.10	133.62	-2,073.33	2,175.50	3,005.26	3,005.02	0.23	N/A	
200.00	200.00	165.73	165.73	0.49	0.36	133.62	-2,072.75	2,175.41	3,004.80	3,003.95	0.85	3,532.958	
300.00	300.00	264.56	264.56	0.85	0.71	133.61	-2,072.35	2,175.32	3,004.45	3,002.89	1.56	1,922.157	
400.00	400.00	372.05	372.05	1.21	1.10	133.61	-2,071.84	2,175.06	3,003.96	3,001.65	2.31	1,302.954	
500.00	500.00	617.13	616.96	1.57	1.97	133.68	-2,069.83	2,167.64	3,001.62	2,998.08	3.54	848.297	
600.00	600.00	735.41	734.78	1.93	2.41	133.82	-2,070.22	2,157.32	2,995.47	2,991.15	4.32	693.125	
700.00	700.00	824.82	823.68	2.29	2.74	133.97	-2,072.29	2,148.05	2,989.59	2,984.58	5.01	596.856	
800.00	800.00	900.63	898.93	2.64	3.03	134.13	-2,075.41	2,139.37	2,984.21	2,978.56	5.65	527.816	
900.00	900.00	968.74	966.39	3.00	3.30	134.30	-2,079.73	2,131.07	2,979.86	2,973.58	6.28	474.735	
1,000.00	1,000.00	1,044.00	1,040.70	3.36	3.61	134.53	-2,086.41	2,121.22	2,976.64	2,969.70	6.94	429.113	
1,100.00	1,100.00	1,086.82	1,082.87	3.72	3.78	134.67	-2,091.16	2,115.50	2,974.76	2,967.28	7.47	398.060	
1,157.71	1,157.71	1,115.12	1,110.71	3.93	3.90	134.77	-2,094.67	2,111.82	2,974.47	2,966.67	7.80	381.447	
1,200.00	1,200.00	1,139.00	1,134.18	4.08	4.00	134.85	-2,097.88	2,108.78	2,974.63	2,966.58	8.05	369.562	
1,300.00	1,300.00	1,183.39	1,177.75	4.44	4.19	135.01	-2,104.37	2,103.34	2,976.25	2,967.66	8.60	346.276	
1,400.00	1,399.98	1,233.00	1,226.36	4.79	4.40	92.21	-2,112.45	2,097.62	2,979.75	2,970.59	9.16	325.295	
1,500.00	1,499.84	1,275.04	1,267.46	5.15	4.58	92.30	-2,120.05	2,093.10	2,985.27	2,975.58	9.69	308.052	
1,600.00	1,599.45	1,338.00	1,328.86	5.51	4.86	92.51	-2,132.39	2,086.67	2,992.64	2,982.32	10.32	289.928	
1,700.00	1,698.70	1,379.03	1,368.76	5.87	5.05	92.60	-2,141.07	2,082.65	3,001.79	2,990.93	10.86	276.406	
1,800.00	1,797.47	1,433.00	1,421.04	6.24	5.29	92.76	-2,153.45	2,077.54	3,012.97	3,001.50	11.47	262.740	
1,900.00	1,895.62	1,466.10	1,452.99	6.63	5.45	92.76	-2,161.60	2,074.57	3,026.21	3,014.22	11.99	252.472	
2,000.00	1,993.06	1,527.00	1,511.51	7.04	5.74	92.98	-2,177.68	2,069.65	3,041.90	3,029.23	12.67	240.172	
2,100.00	2,089.64	1,527.00	1,511.51	7.48	5.74	92.62	-2,177.68	2,069.65	3,059.58	3,046.54	13.04	234.635	
2,200.00	2,185.27	1,579.19	1,561.43	7.94	6.00	92.72	-2,192.49	2,066.11	3,079.55	3,065.83	13.72	224.499	
2,300.00	2,279.82	1,622.00	1,602.22	8.45	6.22	92.71	-2,205.28	2,063.77	3,101.92	3,087.54	14.37	215.840	
2,400.00	2,373.17	1,672.58	1,650.35	8.99	6.48	92.75	-2,220.67	2,061.52	3,126.30	3,111.20	15.10	207.064	
2,500.00	2,465.21	1,767.01	1,740.36	9.58	6.96	93.27	-2,249.03	2,058.20	3,152.15	3,136.05	16.11	195.692	
2,574.08	2,532.50	1,835.59	1,805.96	10.04	7.32	93.64	-2,268.85	2,055.74	3,171.48	3,154.61	16.87	187.978	
2,600.00	2,555.89	1,849.37	1,819.15	10.21	7.40	93.80	-2,272.83	2,055.30	3,178.45	3,161.36	17.09	186.037	
2,700.00	2,646.16	1,905.00	1,872.37	10.88	7.69	94.43	-2,288.97	2,053.83	3,206.34	3,188.41	17.93	178.801	
2,800.00	2,736.44	2,016.55	1,979.37	11.57	8.28	95.66	-2,320.41	2,051.89	3,235.13	3,216.03	19.10	169.377	
2,900.00	2,826.71	2,077.58	2,038.02	12.27	8.60	96.31	-2,337.30	2,051.14	3,264.72	3,244.74	19.99	163.341	
3,000.00	2,916.98	2,163.38	2,120.38	13.00	9.07	97.23	-2,361.29	2,049.69	3,295.30	3,274.28	21.02	156.735	
3,100.00	3,007.25	2,220.12	2,174.72	13.73	9.39	97.84	-2,377.53	2,048.01	3,326.80	3,304.90	21.90	151.908	
3,200.00	3,097.52	2,264.26	2,216.91	14.48	9.63	98.31	-2,390.47	2,047.02	3,359.94	3,337.24	22.70	148.013	
3,300.00	3,187.80	2,346.09	2,295.16	15.23	10.09	99.16	-2,414.38	2,046.36	3,394.46	3,370.75	23.71	143.165	
3,400.00	3,278.07	2,418.04	2,364.24	15.99	10.49	99.87	-2,434.48	2,046.98	3,429.52	3,404.86	24.66	139.092	
3,500.00	3,368.34	2,478.89	2,422.49	16.76	10.83	100.48	-2,452.10	2,046.99	3,465.77	3,440.23	25.53	135.741	
3,600.00	3,458.61	2,577.14	2,516.48	17.54	11.39	101.45	-2,480.68	2,046.49	3,502.71	3,476.08	26.63	131.532	
3,700.00	3,548.89	2,627.91	2,565.12	18.32	11.68	101.93	-2,495.26	2,046.89	3,540.54	3,513.10	27.43	129.064	
3,800.00	3,639.16	2,888.14	2,815.37	19.10	13.14	104.41	-2,565.90	2,041.67	3,576.48	3,547.01	29.48	121.339	
3,900.00	3,729.43	2,940.00	2,865.31	19.89	13.44	104.91	-2,579.67	2,039.29	3,612.43	3,582.13	30.30	119.235	
4,000.00	3,819.70	2,985.84	2,909.45	20.69	13.70	105.34	-2,591.94	2,037.84	3,649.70	3,618.64	31.07	117.482	
4,100.00	3,909.98	3,058.10	2,979.08	21.48	14.11	105.99	-2,611.24	2,036.53	3,688.09	3,656.11	31.98	115.309	
4,200.00	4,000.25	3,158.84	3,076.11	22.28	14.69	106.91	-2,638.11	2,033.12	3,726.63	3,693.56	33.07	112.698	
4,300.00	4,090.52	3,217.80	3,132.74	23.08	15.03	107.45	-2,654.26	2,030.21	3,766.00	3,732.10	33.90	111.100	
4,400.00	4,180.79	3,311.64	3,222.79	23.88	15.58	108.30	-2,680.15	2,025.18	3,806.09	3,771.16	34.93	108.948	
4,500.00	4,271.06	3,376.43	3,285.05	24.69	15.96	108.88	-2,697.81	2,022.05	3,846.73	3,810.95	35.78	107.499	
4,600.00	4,361.34	3,433.75	3,340.14	25.49	16.29	109.38	-2,713.49	2,019.82	3,888.30	3,851.73	36.58	106.301	
4,700.00	4,451.61	3,483.58	3,387.95	26.30	16.59	109.80	-2,727.39	2,018.04	3,930.96	3,893.64	37.32	105.343	
4,800.00	4,541.88	3,546.27	3,448.02	27.11	16.96	110.33	-2,745.22	2,016.02	3,974.65	3,936.53	38.12	104.256	
4,900.00	4,632.15	3,619.12	3,517.89	27.92	17.39	110.93	-2,765.80	2,014.40	4,018.99	3,980.00	38.99	103.083	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	3,686.04	3,582.09	28.74	17.78	111.46	-2,784.67	2,013.53	4,063.98	4,024.18	39.81	102.096	
5,100.00	4,812.70	3,754.83	3,648.04	29.55	18.19	112.00	-2,804.20	2,012.75	4,109.65	4,069.02	40.63	101.150	
5,200.00	4,902.97	3,822.59	3,712.90	30.37	18.59	112.53	-2,823.76	2,011.25	4,155.94	4,114.50	41.44	100.281	
5,300.00	4,993.24	3,892.17	3,779.29	31.18	19.02	113.09	-2,844.36	2,008.20	4,202.90	4,160.64	42.26	99.448	
5,400.00	5,083.51	5,033.23	4,900.63	32.00	24.18	120.54	-3,029.32	1,981.80	4,236.60	4,188.17	48.43	87.477	
5,500.00	5,173.79	5,136.94	5,004.28	32.82	24.49	121.10	-3,032.86	1,980.48	4,263.49	4,214.13	49.36	86.371	
5,600.00	5,264.06	5,229.16	5,096.45	33.63	24.77	121.60	-3,035.68	1,979.44	4,290.43	4,240.17	50.25	85.378	
5,700.00	5,354.33	5,295.75	5,163.00	34.45	24.98	121.95	-3,037.93	1,978.72	4,317.96	4,266.91	51.05	84.583	
5,800.00	5,444.60	5,453.32	5,320.52	35.27	25.44	122.75	-3,041.58	1,978.24	4,344.78	4,292.63	52.15	83.307	
5,900.00	5,534.88	5,540.90	5,408.08	36.09	25.69	123.19	-3,043.20	1,978.47	4,371.80	4,318.79	53.02	82.463	
6,000.00	5,625.15	5,638.77	5,505.94	36.91	25.97	123.66	-3,044.88	1,978.71	4,398.99	4,345.08	53.91	81.600	
6,100.00	5,715.42	5,742.31	5,609.47	37.74	26.27	124.16	-3,046.45	1,978.84	4,426.24	4,371.42	54.82	80.740	
6,200.00	5,805.69	5,852.29	5,719.44	38.56	26.58	124.69	-3,047.65	1,979.04	4,453.41	4,397.66	55.75	79.882	
6,300.00	5,895.96	5,984.69	5,851.84	39.38	26.94	125.31	-3,048.18	1,979.42	4,480.24	4,423.50	56.74	78.961	
6,400.00	5,986.24	6,097.72	5,964.87	40.20	27.23	125.83	-3,047.70	1,979.17	4,506.47	4,448.81	57.66	78.162	
6,500.00	6,076.51	6,176.40	6,043.55	41.03	27.43	126.20	-3,047.41	1,978.61	4,532.98	4,474.52	58.46	77.534	
6,600.00	6,166.78	6,250.66	6,117.80	41.85	27.63	126.54	-3,047.41	1,977.98	4,560.05	4,500.79	59.26	76.949	
6,700.00	6,257.05	6,342.89	6,210.03	42.67	27.87	126.96	-3,047.48	1,977.59	4,587.49	4,527.39	60.11	76.320	
6,800.00	6,347.33	6,477.84	6,344.97	43.50	28.22	127.56	-3,046.72	1,977.61	4,614.62	4,553.54	61.08	75.550	
6,900.00	6,437.60	6,584.11	6,451.23	44.32	28.49	128.03	-3,045.62	1,976.57	4,641.50	4,579.53	61.96	74.907	
7,000.00	6,527.87	6,675.41	6,542.49	45.15	28.73	128.45	-3,044.62	1,974.18	4,668.39	4,605.59	62.80	74.338	
7,100.00	6,618.14	6,751.47	6,618.51	45.98	28.94	128.81	-3,043.97	1,971.55	4,695.70	4,632.11	63.59	73.849	
7,200.00	6,708.41	6,818.00	6,684.99	46.80	29.13	129.12	-3,043.67	1,969.06	4,723.61	4,659.27	64.34	73.421	
7,300.00	6,798.69	6,884.65	6,751.60	47.63	29.32	129.43	-3,043.66	1,966.81	4,752.21	4,687.12	65.09	73.015	
7,400.00	6,888.96	6,959.32	6,826.24	48.45	29.54	129.76	-3,044.00	1,964.75	4,781.48	4,715.62	65.86	72.600	
7,500.00	6,979.23	7,181.05	7,047.80	49.28	30.18	130.77	-3,043.01	1,956.41	4,810.59	4,743.47	67.13	71.663	
7,600.00	7,069.50	7,244.46	7,111.15	50.11	30.35	131.05	-3,041.72	1,953.83	4,838.13	4,770.28	67.86	71.300	
7,692.09	7,152.63	7,290.00	7,156.66	50.87	30.48	131.25	-3,041.13	1,952.50	4,864.33	4,795.85	68.48	71.033	
7,700.00	7,159.79	7,297.55	7,164.21	50.93	30.50	130.08	-3,041.06	1,952.33	4,866.57	4,798.02	68.55	70.998	
7,750.00	7,205.70	7,331.11	7,197.76	51.32	30.59	121.21	-3,040.77	1,951.75	4,878.34	4,809.44	68.91	70.796	
7,800.00	7,252.52	7,365.50	7,232.16	51.66	30.68	109.64	-3,040.55	1,951.50	4,886.02	4,816.75	69.27	70.540	
7,850.00	7,299.89	7,403.86	7,270.51	51.96	30.79	95.55	-3,040.39	1,951.54	4,889.53	4,819.90	69.63	70.221	
7,900.00	7,347.44	7,446.08	7,312.73	52.20	30.91	80.34	-3,040.26	1,951.42	4,888.79	4,818.80	69.99	69.848	
7,950.00	7,394.83	7,487.80	7,354.45	52.39	31.02	66.14	-3,040.20	1,951.06	4,883.80	4,813.47	70.33	69.439	
8,000.00	7,441.68	7,528.38	7,395.03	52.53	31.14	54.37	-3,040.18	1,950.62	4,874.61	4,803.96	70.65	68.995	
8,050.00	7,487.65	7,568.19	7,434.84	52.62	31.26	45.28	-3,040.22	1,950.16	4,861.28	4,790.33	70.95	68.520	
8,100.00	7,532.37	8,100.00	7,514.26	52.67	32.76	38.59	-3,039.78	1,950.15	4,843.46	4,770.62	72.84	66.498	
8,150.00	7,575.52	7,696.24	7,562.87	52.67	31.62	33.47	-3,039.36	1,950.54	4,821.64	4,749.99	71.65	67.293	
8,200.00	7,616.76	7,716.64	7,583.27	52.63	31.68	29.47	-3,039.25	1,950.79	4,796.18	4,724.36	71.82	66.782	
8,250.00	7,655.77	7,736.03	7,602.66	52.55	31.73	26.37	-3,039.23	1,951.01	4,767.25	4,695.29	71.97	66.244	
8,300.00	7,692.27	7,761.00	7,627.63	52.44	31.80	23.94	-3,039.32	1,951.28	4,735.07	4,662.96	72.12	65.659	
8,350.00	7,725.97	7,761.00	7,627.63	52.29	31.80	21.88	-3,039.32	1,951.28	4,699.84	4,627.68	72.16	65.132	
8,400.00	7,756.62	7,787.14	7,653.77	52.12	31.88	20.30	-3,039.56	1,951.56	4,661.73	4,589.44	72.29	64.487	
8,450.00	7,783.98	7,801.37	7,668.00	51.92	31.93	18.93	-3,039.75	1,951.70	4,621.08	4,548.72	72.36	63.859	
8,500.00	7,807.85	7,813.95	7,680.57	51.70	31.97	17.74	-3,039.95	1,951.83	4,578.13	4,505.71	72.42	63.215	
8,550.00	7,828.05	7,824.77	7,691.39	51.45	32.00	16.63	-3,040.15	1,951.94	4,533.17	4,460.71	72.46	62.558	
8,600.00	7,844.41	7,833.73	7,700.34	51.20	32.03	15.47	-3,040.34	1,952.04	4,486.53	4,414.03	72.49	61.888	
8,650.00	7,856.82	7,855.00	7,721.61	50.93	32.09	14.17	-3,040.84	1,952.25	4,438.56	4,365.99	72.57	61.162	
8,700.00	7,865.18	7,855.00	7,721.61	50.65	32.09	11.52	-3,040.84	1,952.25	4,389.52	4,316.96	72.56	60.496	
8,750.00	7,869.43	7,855.00	7,721.61	50.36	32.09	2.83	-3,040.84	1,952.25	4,339.83	4,267.28	72.55	59.821	
8,776.25	7,870.00	7,855.00	7,721.61	50.21	32.09	-24.75	-3,040.84	1,952.25	4,313.60	4,241.06	72.54	59.464	
8,800.00	7,870.00	7,855.00	7,721.61	50.08	32.09	-24.75	-3,040.84	1,952.25	4,289.87	4,217.33	72.54	59.140	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,855.00	7,721.61	49.53	32.09	-24.75	-3,040.84	1,952.25	4,189.90	4,117.38	72.52	57.779	
9,000.00	7,870.00	7,855.00	7,721.61	49.01	32.09	-24.75	-3,040.84	1,952.25	4,089.94	4,017.44	72.49	56.417	
9,100.00	7,870.00	7,855.00	7,721.61	48.52	32.09	-24.75	-3,040.84	1,952.25	3,989.97	3,917.50	72.47	55.054	
9,200.00	7,870.00	7,855.00	7,721.61	48.06	32.09	-24.75	-3,040.84	1,952.25	3,890.01	3,817.56	72.45	53.691	
9,300.00	7,870.00	7,857.35	7,723.96	47.63	32.10	-25.27	-3,040.90	1,952.28	3,790.06	3,717.61	72.44	52.319	
9,400.00	7,870.00	7,859.73	7,726.34	47.22	32.11	-25.83	-3,040.97	1,952.30	3,690.10	3,617.67	72.43	50.946	
9,500.00	7,870.00	7,862.11	7,728.72	46.83	32.11	-26.40	-3,041.03	1,952.33	3,590.14	3,517.72	72.42	49.573	
9,600.00	7,870.00	7,864.51	7,731.11	46.48	32.12	-27.01	-3,041.09	1,952.35	3,490.18	3,417.77	72.41	48.200	
9,700.00	7,870.00	7,866.92	7,733.52	46.14	32.13	-27.64	-3,041.15	1,952.38	3,390.23	3,317.83	72.40	46.826	
9,800.00	7,870.00	7,869.33	7,735.94	45.83	32.14	-28.30	-3,041.22	1,952.40	3,290.27	3,217.88	72.39	45.451	
9,900.00	7,870.00	7,871.77	7,738.37	45.54	32.15	-29.00	-3,041.28	1,952.42	3,190.32	3,117.94	72.38	44.076	
10,000.00	7,870.00	7,874.21	7,740.81	45.27	32.15	-29.73	-3,041.35	1,952.45	3,090.36	3,017.99	72.37	42.701	
10,100.00	7,870.00	7,876.66	7,743.27	45.03	32.16	-30.49	-3,041.41	1,952.47	2,990.41	2,918.05	72.36	41.326	
10,200.00	7,870.00	7,879.13	7,745.73	44.82	32.17	-31.30	-3,041.48	1,952.50	2,890.46	2,818.11	72.35	39.950	
10,300.00	7,870.00	7,881.61	7,748.21	44.66	32.18	-32.15	-3,041.54	1,952.52	2,790.51	2,718.17	72.34	38.574	
10,400.00	7,870.00	7,884.10	7,750.70	44.56	32.19	-33.04	-3,041.61	1,952.54	2,690.56	2,618.23	72.33	37.198	
10,500.00	7,870.00	7,886.60	7,753.20	44.58	32.19	-33.98	-3,041.68	1,952.57	2,590.61	2,518.29	72.32	35.822	
10,600.00	7,870.00	7,889.12	7,755.71	44.82	32.20	-34.98	-3,041.74	1,952.59	2,490.67	2,418.36	72.31	34.445	
10,700.00	7,870.00	7,891.65	7,758.24	45.36	32.21	-36.03	-3,041.81	1,952.62	2,390.72	2,318.43	72.30	33.069	
10,800.00	7,870.00	7,894.19	7,760.78	46.15	32.22	-37.14	-3,041.88	1,952.64	2,290.78	2,218.50	72.28	31.692	
10,900.00	7,870.00	7,896.74	7,763.33	47.09	32.23	-38.32	-3,041.95	1,952.67	2,190.84	2,118.57	72.27	30.316	
11,000.00	7,870.00	7,899.30	7,765.90	48.13	32.24	-39.56	-3,042.02	1,952.69	2,090.90	2,018.65	72.25	28.939	
11,100.00	7,870.00	7,901.88	7,768.47	49.22	32.24	-40.88	-3,042.09	1,952.71	1,990.96	1,918.73	72.23	27.563	
11,200.00	7,870.00	7,904.47	7,771.06	50.37	32.25	-42.28	-3,042.16	1,952.74	1,891.03	1,818.82	72.21	26.186	
11,300.00	7,870.00	7,907.08	7,773.67	51.55	32.26	-43.76	-3,042.23	1,952.76	1,791.10	1,718.91	72.19	24.810	
11,400.00	7,870.00	7,909.69	7,776.28	52.76	32.27	-45.34	-3,042.30	1,952.79	1,691.18	1,619.01	72.17	23.434	
11,500.00	7,870.00	7,912.33	7,778.91	54.00	32.28	-47.01	-3,042.37	1,952.81	1,591.26	1,519.12	72.14	22.058	
11,600.00	7,870.00	7,914.97	7,781.55	55.27	32.29	-48.79	-3,042.45	1,952.83	1,491.34	1,419.23	72.11	20.682	
11,700.00	7,870.00	7,917.63	7,784.21	56.56	32.29	-50.67	-3,042.52	1,952.86	1,391.43	1,319.37	72.07	19.307	
11,800.00	7,870.00	7,920.30	7,786.88	57.88	32.30	-52.67	-3,042.59	1,952.88	1,291.54	1,219.51	72.03	17.932	
11,900.00	7,870.00	7,922.98	7,789.56	59.21	32.31	-54.80	-3,042.67	1,952.91	1,191.65	1,119.68	71.97	16.557	
12,000.00	7,870.00	7,925.68	7,792.26	60.57	32.32	-57.04	-3,042.74	1,952.93	1,091.77	1,019.87	71.91	15.183	
12,100.00	7,870.00	7,928.39	7,794.97	61.94	32.33	-59.42	-3,042.82	1,952.95	991.92	920.09	71.83	13.809	
12,200.00	7,870.00	7,931.11	7,797.69	63.33	32.34	-61.94	-3,042.90	1,952.98	892.09	820.35	71.74	12.435	
12,300.00	7,870.00	7,933.85	7,800.43	64.74	32.35	-64.58	-3,042.97	1,953.00	792.29	720.66	71.62	11.062	
12,400.00	7,870.00	7,936.61	7,803.18	66.16	32.36	-67.36	-3,043.05	1,953.03	692.53	621.06	71.47	9.690	
12,500.00	7,870.00	7,939.38	7,805.95	67.59	32.36	-70.27	-3,043.13	1,953.05	592.85	521.57	71.28	8.318	
12,600.00	7,870.00	7,942.16	7,808.73	69.04	32.37	-73.30	-3,043.21	1,953.07	493.28	422.26	71.02	6.946	
12,700.00	7,870.00	7,944.95	7,811.53	70.51	32.38	-76.44	-3,043.28	1,953.10	393.90	323.24	70.66	5.574	
12,800.00	7,870.00	7,947.76	7,814.34	71.98	32.39	-79.69	-3,043.36	1,953.12	294.93	224.74	70.19	4.202	
12,900.00	7,870.00	7,950.59	7,817.16	73.47	32.40	-83.01	-3,043.44	1,953.14	196.95	127.22	69.73	2.825	
13,000.00	7,870.00	7,953.43	7,820.00	74.96	32.41	-86.40	-3,043.53	1,953.17	102.85	30.51	72.34	1.422	Level 3
13,091.17	7,870.00	7,956.04	7,822.61	76.34	32.42	-89.53	-3,043.60	1,953.19	47.68	-58.76	106.44	0.448	Level 1, CC, SF
13,100.00	7,870.00	7,956.30	7,822.86	76.47	32.42	-89.84	-3,043.61	1,953.19	48.49	-59.53	108.03	0.449	Level 1, ES
13,200.00	7,870.00	7,959.17	7,825.74	77.99	32.43	-93.29	-3,043.69	1,953.21	118.78	31.94	86.84	1.368	Level 3
13,300.00	7,870.00	7,962.07	7,828.63	79.51	32.44	-96.73	-3,043.77	1,953.24	214.12	134.17	79.96	2.678	
13,400.00	7,870.00	7,964.98	7,831.54	81.05	32.45	-100.14	-3,043.86	1,953.26	312.37	234.81	77.56	4.027	
13,500.00	7,870.00	7,967.91	7,834.47	82.59	32.46	-103.50	-3,043.94	1,953.28	411.44	335.03	76.40	5.385	
13,600.00	7,870.00	7,970.85	7,837.42	84.14	32.47	-106.78	-3,044.03	1,953.30	510.85	435.12	75.73	6.745	
13,700.00	7,870.00	7,973.82	7,840.38	85.70	32.48	-109.97	-3,044.11	1,953.32	610.44	535.14	75.31	8.106	
13,800.00	7,870.00	7,976.80	7,843.36	87.26	32.49	-113.05	-3,044.20	1,953.35	710.14	635.12	75.02	9.466	
13,900.00	7,870.00	7,979.80	7,846.36	88.83	32.50	-116.01	-3,044.29	1,953.37	809.90	735.09	74.81	10.826	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,982.82	7,849.37	90.41	32.51	-118.85	-3,044.38	1,953.39	909.70	835.04	74.66	12.185	
14,100.00	7,870.00	7,985.85	7,852.41	92.00	32.52	-121.55	-3,044.47	1,953.41	1,009.53	934.99	74.54	13.544	
14,200.00	7,870.00	7,988.91	7,855.46	93.59	32.53	-124.11	-3,044.56	1,953.43	1,109.39	1,034.94	74.45	14.901	
14,300.00	7,870.00	7,991.98	7,858.53	95.18	32.54	-126.55	-3,044.65	1,953.45	1,209.26	1,134.87	74.38	16.257	
14,400.00	7,870.00	7,995.07	7,861.62	96.79	32.55	-128.85	-3,044.74	1,953.47	1,309.14	1,234.81	74.33	17.612	
14,500.00	7,870.00	7,998.18	7,864.73	98.39	32.56	-131.02	-3,044.83	1,953.48	1,409.04	1,334.74	74.29	18.966	
14,600.00	7,870.00	8,001.31	7,867.86	100.00	32.57	-133.07	-3,044.93	1,953.50	1,508.94	1,434.67	74.26	20.318	
14,700.00	7,870.00	8,004.46	7,871.01	101.62	32.58	-135.00	-3,045.02	1,953.52	1,608.85	1,534.60	74.24	21.670	
14,800.00	7,870.00	8,007.63	7,874.18	103.24	32.59	-136.81	-3,045.12	1,953.54	1,708.76	1,634.53	74.23	23.020	
14,900.00	7,870.00	8,010.82	7,877.36	104.87	32.60	-138.53	-3,045.21	1,953.56	1,808.68	1,734.46	74.22	24.369	
15,000.00	7,870.00	8,014.03	7,880.57	106.50	32.61	-140.14	-3,045.31	1,953.57	1,908.60	1,834.38	74.22	25.716	
15,100.00	7,870.00	8,017.26	7,883.80	108.13	32.62	-141.66	-3,045.41	1,953.59	2,008.52	1,934.30	74.22	27.062	
15,200.00	7,870.00	8,020.51	7,887.04	109.77	32.63	-143.09	-3,045.51	1,953.61	2,108.45	2,034.23	74.22	28.407	
15,300.00	7,870.00	8,023.77	7,890.31	111.41	32.64	-144.44	-3,045.61	1,953.62	2,208.38	2,134.15	74.23	29.750	
15,400.00	7,870.00	8,027.06	7,893.60	113.05	32.65	-145.71	-3,045.71	1,953.64	2,308.31	2,234.07	74.24	31.091	
15,500.00	7,870.00	8,030.37	7,896.91	114.70	32.66	-146.92	-3,045.81	1,953.65	2,408.24	2,333.99	74.26	32.432	
15,600.00	7,870.00	8,033.70	7,900.24	116.35	32.67	-148.05	-3,045.91	1,953.66	2,508.18	2,433.90	74.27	33.770	
15,700.00	7,870.00	8,037.06	7,903.59	118.00	32.68	-149.13	-3,046.02	1,953.68	2,608.11	2,533.82	74.29	35.107	
15,800.00	7,870.00	8,040.43	7,906.96	119.66	32.70	-150.15	-3,046.12	1,953.69	2,708.05	2,633.73	74.31	36.442	
15,900.00	7,870.00	8,043.83	7,910.35	121.32	32.71	-151.11	-3,046.23	1,953.70	2,807.98	2,733.65	74.33	37.776	
16,000.00	7,870.00	8,047.24	7,913.77	122.98	32.72	-152.02	-3,046.33	1,953.72	2,907.92	2,833.56	74.36	39.108	
16,100.00	7,870.00	8,050.68	7,917.21	124.65	32.73	-152.89	-3,046.44	1,953.73	3,007.86	2,933.48	74.38	40.438	
16,200.00	7,870.00	8,054.14	7,920.67	126.32	32.74	-153.71	-3,046.55	1,953.74	3,107.80	3,033.39	74.41	41.766	
16,300.00	7,870.00	8,057.63	7,924.15	127.99	32.75	-154.50	-3,046.66	1,953.75	3,207.73	3,133.30	74.44	43.093	
16,400.00	7,870.00	8,058.61	7,925.13	129.66	32.76	-154.71	-3,046.69	1,953.76	3,307.68	3,233.21	74.47	44.414	
16,500.00	7,870.00	8,061.53	7,928.05	131.33	32.76	-155.32	-3,046.78	1,953.77	3,407.62	3,333.12	74.51	45.737	
16,600.00	7,870.00	8,064.45	7,930.96	133.01	32.77	-155.91	-3,046.87	1,953.78	3,507.56	3,433.03	74.54	47.057	
16,700.00	7,870.00	8,067.35	7,933.87	134.69	32.78	-156.46	-3,046.96	1,953.79	3,607.51	3,532.93	74.57	48.376	
16,800.00	7,870.00	8,070.25	7,936.76	136.37	32.79	-157.00	-3,047.04	1,953.80	3,707.45	3,632.84	74.61	49.692	
16,900.00	7,870.00	8,073.13	7,939.64	138.06	32.80	-157.50	-3,047.13	1,953.81	3,807.40	3,732.75	74.64	51.007	
17,000.00	7,870.00	8,076.01	7,942.52	139.74	32.81	-157.99	-3,047.22	1,953.82	3,907.34	3,832.66	74.68	52.320	
17,100.00	7,870.00	8,078.88	7,945.39	141.43	32.82	-158.45	-3,047.31	1,953.83	4,007.29	3,932.57	74.72	53.630	
17,200.00	7,870.00	8,081.73	7,948.24	143.12	32.83	-158.90	-3,047.40	1,953.84	4,107.23	4,032.47	74.76	54.939	
17,300.00	7,870.00	8,084.58	7,951.09	144.81	32.84	-159.32	-3,047.48	1,953.84	4,207.18	4,132.38	74.80	56.245	
17,400.00	7,870.00	8,087.42	7,953.93	146.50	32.85	-159.73	-3,047.57	1,953.85	4,307.13	4,232.29	74.84	57.550	
17,500.00	7,870.00	8,090.25	7,956.76	148.19	32.86	-160.12	-3,047.66	1,953.86	4,407.08	4,332.19	74.88	58.852	
17,600.00	7,870.00	8,093.07	7,959.58	149.89	32.87	-160.50	-3,047.74	1,953.87	4,507.02	4,432.10	74.93	60.153	
17,700.00	7,870.00	8,095.89	7,962.39	151.59	32.88	-160.86	-3,047.83	1,953.88	4,606.97	4,532.00	74.97	61.451	
17,800.00	7,870.00	8,098.69	7,965.19	153.29	32.89	-161.20	-3,047.91	1,953.89	4,706.92	4,631.91	75.01	62.747	
17,900.00	7,870.00	8,101.48	7,967.98	154.99	32.90	-161.54	-3,048.00	1,953.90	4,806.87	4,731.81	75.06	64.041	
18,000.00	7,870.00	8,104.27	7,970.77	156.69	32.91	-161.86	-3,048.08	1,953.90	4,906.82	4,831.71	75.11	65.332	
18,100.00	7,870.00	8,107.05	7,973.54	158.39	32.92	-162.17	-3,048.16	1,953.91	5,006.77	4,931.62	75.15	66.622	
18,200.00	7,870.00	8,109.82	7,976.31	160.09	32.92	-162.47	-3,048.25	1,953.92	5,106.72	5,031.52	75.20	67.909	
18,300.00	7,870.00	8,112.57	7,979.07	161.80	32.93	-162.76	-3,048.33	1,953.93	5,206.67	5,131.42	75.25	69.194	
18,400.00	7,870.00	8,115.33	7,981.82	163.51	32.94	-163.04	-3,048.41	1,953.94	5,306.62	5,231.32	75.30	70.476	
18,455.45	7,870.00	8,116.85	7,983.34	164.45	32.95	-163.19	-3,048.46	1,953.94	5,362.04	5,286.72	75.32	71.186	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	109.00	-1,475.73	4,286.81	4,533.99				
100.00	100.00	32.62	32.62	0.13	0.05	109.00	-1,475.72	4,286.88	4,533.81	4,533.62	0.19	N/A	
200.00	200.00	97.85	97.84	0.49	0.16	108.99	-1,475.65	4,287.44	4,534.58	4,533.93	0.65	7,007.101	
300.00	300.00	242.40	242.39	0.85	0.62	108.98	-1,475.16	4,288.89	4,535.50	4,534.02	1.47	3,078.420	
400.00	400.00	525.41	524.98	1.21	1.62	109.12	-1,484.29	4,280.38	4,533.81	4,530.98	2.83	1,603.405	
500.00	500.00	620.47	619.33	1.57	1.98	109.26	-1,493.34	4,273.13	4,529.72	4,526.18	3.55	1,277.019	
600.00	600.00	690.72	688.67	1.93	2.27	109.40	-1,502.93	4,267.37	4,526.42	4,522.23	4.19	1,080.048	
700.00	700.00	795.48	791.28	2.29	2.73	109.67	-1,521.48	4,257.34	4,523.25	4,518.24	5.01	902.306	
800.00	800.00	877.68	871.20	2.64	3.13	109.91	-1,538.62	4,248.66	4,520.31	4,514.54	5.76	784.213	
900.00	900.00	950.00	941.29	3.00	3.49	110.13	-1,554.75	4,241.07	4,517.99	4,511.51	6.48	696.702	
1,000.00	1,000.00	1,116.37	1,102.39	3.36	4.36	110.66	-1,592.13	4,222.94	4,515.67	4,507.96	7.71	585.687	
1,100.00	1,100.00	1,214.00	1,197.02	3.72	4.88	110.96	-1,613.12	4,211.31	4,512.08	4,503.50	8.58	525.645	
1,200.00	1,200.00	1,278.69	1,259.81	4.08	5.22	111.16	-1,626.90	4,203.99	4,509.15	4,499.86	9.29	485.628	
1,300.00	1,300.00	1,375.14	1,353.38	4.44	5.74	111.45	-1,647.86	4,193.67	4,507.00	4,496.84	10.16	443.566	
1,400.00	1,399.98	1,458.18	1,433.60	4.79	6.19	68.85	-1,667.07	4,184.15	4,504.17	4,493.20	10.98	410.384	
1,500.00	1,499.84	1,541.97	1,514.35	5.15	6.67	69.25	-1,687.31	4,174.67	4,500.74	4,488.94	11.80	381.343	
1,600.00	1,599.45	1,624.92	1,594.22	5.51	7.14	69.69	-1,707.60	4,165.21	4,496.36	4,483.73	12.63	355.950	
1,700.00	1,698.70	1,693.51	1,660.28	5.87	7.53	70.12	-1,724.50	4,157.74	4,491.55	4,478.17	13.39	335.536	
1,800.00	1,797.47	1,814.13	1,776.65	6.24	8.21	70.85	-1,753.45	4,144.74	4,485.77	4,471.33	14.44	310.609	
1,900.00	1,895.62	1,939.06	1,897.42	6.63	8.91	71.66	-1,782.32	4,130.95	4,478.73	4,463.20	15.53	288.445	
2,000.00	1,993.06	2,062.64	2,017.12	7.04	9.60	72.54	-1,809.50	4,116.70	4,470.17	4,453.55	16.61	269.051	
2,100.00	2,089.64	2,240.81	2,189.89	7.48	10.57	73.83	-1,846.35	4,093.56	4,458.94	4,440.93	18.01	247.557	
2,200.00	2,185.27	2,324.20	2,270.87	7.94	11.03	74.60	-1,862.99	4,082.57	4,447.32	4,428.40	18.92	235.034	
2,300.00	2,279.82	2,386.30	2,331.16	8.45	11.36	75.25	-1,875.46	4,074.50	4,435.56	4,415.81	19.75	224.560	
2,400.00	2,373.17	2,441.00	2,384.32	8.99	11.66	75.87	-1,886.44	4,067.78	4,424.10	4,403.52	20.58	214.954	
2,500.00	2,465.21	2,505.99	2,447.49	9.58	12.01	76.59	-1,899.64	4,060.07	4,412.92	4,391.41	21.51	205.160	
2,574.08	2,532.50	2,597.32	2,536.19	10.04	12.50	77.49	-1,918.43	4,049.10	4,404.70	4,382.24	22.46	196.100	
2,600.00	2,555.89	2,600.00	2,546.57	10.21	12.52	77.58	-1,920.53	4,047.66	4,401.60	4,378.96	22.64	194.399	
2,700.00	2,646.16	2,691.50	2,627.69	10.88	13.01	78.26	-1,937.33	4,037.21	4,390.58	4,366.79	23.79	184.520	
2,800.00	2,736.44	2,747.23	2,681.90	11.57	13.31	78.71	-1,948.41	4,030.58	4,380.77	4,356.00	24.77	176.825	
2,900.00	2,826.71	2,803.11	2,736.34	12.27	13.61	79.16	-1,959.36	4,024.37	4,372.23	4,346.46	25.77	169.661	
3,000.00	2,916.98	2,882.66	2,813.95	13.00	14.02	79.80	-1,974.68	4,015.98	4,364.80	4,337.90	26.90	162.250	
3,100.00	3,007.25	2,971.48	2,900.64	13.73	14.48	80.52	-1,991.58	4,006.55	4,358.07	4,329.97	28.09	155.125	
3,200.00	3,097.52	3,048.79	2,976.08	14.48	14.89	81.14	-2,006.29	3,998.19	4,352.07	4,322.83	29.24	148.837	
3,300.00	3,187.80	3,115.83	3,041.30	15.23	15.25	81.69	-2,019.80	3,990.60	4,347.09	4,316.75	30.35	143.247	
3,400.00	3,278.07	3,177.25	3,100.92	15.99	15.58	82.20	-2,032.72	3,983.51	4,343.27	4,311.83	31.44	138.155	
3,500.00	3,368.34	3,234.86	3,156.81	16.76	15.90	82.68	-2,045.06	3,976.98	4,340.68	4,308.17	32.51	133.521	
3,600.00	3,458.61	3,291.00	3,211.42	17.54	16.20	83.14	-2,056.75	3,971.21	4,339.37	4,305.80	33.57	129.247	
3,652.89	3,506.36	3,322.09	3,241.71	17.95	16.36	83.40	-2,063.11	3,968.25	4,339.20	4,305.05	34.14	127.095	
3,700.00	3,548.89	3,349.06	3,268.00	18.32	16.50	83.62	-2,068.62	3,965.77	4,339.34	4,304.69	34.64	125.263	
3,800.00	3,639.16	3,433.72	3,350.51	19.10	16.95	84.30	-2,085.94	3,958.18	4,340.44	4,304.58	35.86	121.037	
3,900.00	3,729.43	3,544.34	3,458.13	19.89	17.54	85.21	-2,109.01	3,947.07	4,341.95	4,304.72	37.23	116.637	
4,000.00	3,819.70	3,666.57	3,577.04	20.69	18.19	86.22	-2,134.00	3,933.87	4,343.69	4,305.05	38.65	112.391	
4,100.00	3,909.98	3,779.40	3,687.32	21.48	18.77	87.12	-2,154.79	3,922.14	4,345.49	4,305.48	40.01	108.624	
4,200.00	4,000.25	3,859.11	3,765.55	22.28	19.15	87.74	-2,168.14	3,914.73	4,347.91	4,306.75	41.16	105.638	
4,300.00	4,090.52	3,941.04	3,846.24	23.08	19.54	88.36	-2,180.72	3,908.15	4,351.12	4,308.80	42.32	102.811	
4,400.00	4,180.79	4,143.60	4,046.99	23.88	20.39	89.81	-2,204.13	3,895.33	4,353.98	4,310.03	43.95	99.065	
4,500.00	4,271.06	4,259.73	4,162.71	24.69	20.79	90.58	-2,212.33	3,890.21	4,356.01	4,310.88	45.13	96.528	
4,600.00	4,361.34	4,376.99	4,279.82	25.49	21.17	91.31	-2,217.40	3,886.91	4,357.91	4,311.62	46.28	94.156	
4,700.00	4,451.61	4,488.47	4,391.24	26.30	21.49	91.98	-2,220.27	3,884.81	4,359.81	4,312.42	47.39	91.997	
4,800.00	4,541.88	4,601.85	4,504.61	27.11	21.82	92.64	-2,221.45	3,883.58	4,361.71	4,313.21	48.50	89.927	
4,900.00	4,632.15	4,725.58	4,628.33	27.92	22.14	93.35	-2,221.28	3,882.52	4,363.43	4,313.83	49.61	87.960	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,833.68	4,736.43	28.74	22.41	93.96	-2,220.26	3,881.55	4,365.03	4,314.38	50.66	86.166	
5,100.00	4,812.70	4,935.90	4,838.63	29.55	22.67	94.53	-2,219.08	3,880.45	4,366.81	4,315.11	51.70	84.472	
5,200.00	4,902.97	5,023.68	4,926.40	30.37	22.90	95.03	-2,218.05	3,879.22	4,368.80	4,316.09	52.71	82.888	
5,300.00	4,993.24	5,096.45	4,999.16	31.18	23.09	95.44	-2,217.50	3,878.22	4,371.51	4,317.82	53.69	81.425	
5,400.00	5,083.51	5,169.04	5,071.74	32.00	23.29	95.86	-2,217.27	3,877.29	4,375.01	4,320.34	54.66	80.033	
5,500.00	5,173.79	5,241.45	5,144.14	32.82	23.49	96.27	-2,217.37	3,876.43	4,379.30	4,323.66	55.64	78.710	
5,600.00	5,264.06	5,320.70	5,223.39	33.63	23.71	96.73	-2,217.78	3,875.56	4,384.33	4,327.70	56.64	77.413	
5,700.00	5,354.33	5,407.67	5,310.35	34.45	23.97	97.23	-2,218.34	3,874.67	4,389.94	4,332.28	57.66	76.139	
5,800.00	5,444.60	5,511.48	5,414.16	35.27	24.27	97.82	-2,218.93	3,873.56	4,395.91	4,337.19	58.73	74.856	
5,900.00	5,534.88	5,615.31	5,517.98	36.09	24.57	98.41	-2,219.07	3,872.31	4,401.92	4,342.13	59.79	73.626	
6,000.00	5,625.15	5,712.21	5,614.87	36.91	24.85	98.96	-2,218.96	3,871.14	4,408.18	4,347.36	60.82	72.473	
6,100.00	5,715.42	5,790.36	5,693.01	37.74	25.08	99.40	-2,218.87	3,870.19	4,414.87	4,353.06	61.81	71.428	
6,200.00	5,805.69	5,921.90	5,824.54	38.56	25.46	100.14	-2,218.85	3,868.42	4,422.08	4,359.14	62.94	70.258	
6,300.00	5,895.96	6,025.70	5,928.33	39.38	25.75	100.71	-2,217.74	3,866.87	4,428.77	4,364.79	63.98	69.220	
6,400.00	5,986.24	6,101.16	6,003.77	40.20	25.96	101.13	-2,216.95	3,865.80	4,435.92	4,370.97	64.94	68.305	
6,500.00	6,076.51	6,190.60	6,093.20	41.03	26.21	101.63	-2,216.13	3,864.66	4,443.64	4,377.70	65.94	67.390	
6,600.00	6,166.78	6,288.53	6,191.12	41.85	26.49	102.17	-2,215.18	3,863.32	4,451.69	4,384.73	66.96	66.485	
6,700.00	6,257.05	6,375.69	6,278.26	42.67	26.74	102.65	-2,214.44	3,861.83	4,460.06	4,392.12	67.95	65.641	
6,800.00	6,347.33	6,465.25	6,367.80	43.50	27.00	103.14	-2,213.84	3,860.18	4,468.91	4,399.97	68.94	64.821	
6,900.00	6,437.60	6,540.09	6,442.63	44.32	27.22	103.56	-2,213.44	3,858.75	4,478.26	4,408.37	69.89	64.074	
7,000.00	6,527.87	6,610.91	6,513.44	45.15	27.44	103.95	-2,213.30	3,857.69	4,488.44	4,417.62	70.83	63.372	
7,100.00	6,618.14	6,692.55	6,595.08	45.98	27.68	104.39	-2,213.21	3,856.74	4,499.26	4,427.48	71.79	62.673	
7,200.00	6,708.41	6,766.56	6,669.09	46.80	27.91	104.80	-2,213.30	3,855.99	4,510.73	4,438.01	72.72	62.025	
7,300.00	6,798.69	6,848.56	6,751.07	47.63	28.17	105.24	-2,213.68	3,855.13	4,522.84	4,449.16	73.68	61.382	
7,400.00	6,888.96	6,932.52	6,835.02	48.45	28.43	105.70	-2,214.31	3,854.08	4,535.48	4,460.83	74.65	60.759	
7,500.00	6,979.23	7,019.77	6,922.26	49.28	28.71	106.18	-2,215.20	3,852.74	4,548.60	4,472.98	75.62	60.152	
7,600.00	7,069.50	7,119.99	7,022.45	50.11	29.04	106.73	-2,216.48	3,850.63	4,562.07	4,485.44	76.63	59.532	
7,692.09	7,152.63	7,204.08	7,106.50	50.87	29.32	107.20	-2,217.56	3,848.37	4,574.63	4,497.09	77.54	59.000	
7,700.00	7,159.79	7,210.50	7,112.92	50.93	29.34	106.07	-2,217.65	3,848.19	4,575.68	4,498.07	77.61	58.957	
7,750.00	7,205.70	7,251.75	7,154.15	51.32	29.48	97.43	-2,218.27	3,847.01	4,580.16	4,502.09	78.07	58.667	
7,800.00	7,252.52	7,295.98	7,198.35	51.66	29.63	85.93	-2,219.00	3,845.69	4,580.86	4,502.34	78.52	58.341	
7,850.00	7,299.89	7,340.75	7,243.09	51.96	29.78	71.74	-2,219.78	3,844.30	4,577.74	4,498.80	78.94	57.990	
7,900.00	7,347.44	7,385.72	7,288.03	52.20	29.93	56.25	-2,220.62	3,842.84	4,570.82	4,491.49	79.33	57.618	
7,950.00	7,394.83	7,950.00	7,392.70	52.39	31.75	41.77	-2,221.84	3,839.55	4,559.84	4,478.42	81.42	56.002	
8,000.00	7,441.68	7,618.82	7,521.01	52.53	30.66	29.52	-2,220.21	3,836.88	4,544.22	4,463.77	80.45	56.486	
8,050.00	7,487.65	7,661.20	7,563.38	52.62	30.78	19.44	-2,219.02	3,836.56	4,524.74	4,444.02	80.71	56.059	
8,100.00	7,532.37	7,699.16	7,601.32	52.67	30.88	11.35	-2,218.00	3,836.29	4,501.83	4,420.89	80.93	55.624	
8,150.00	7,575.52	7,736.10	7,638.25	52.67	30.99	4.62	-2,217.06	3,836.05	4,475.66	4,394.54	81.12	55.175	
8,200.00	7,616.76	7,771.89	7,674.02	52.63	31.09	-1.24	-2,216.14	3,835.91	4,446.41	4,365.14	81.27	54.712	
8,250.00	7,655.77	7,805.68	7,707.81	52.55	31.18	-6.68	-2,215.27	3,835.87	4,414.30	4,332.91	81.39	54.238	
8,300.00	7,692.27	7,838.40	7,740.51	52.44	31.27	-12.02	-2,214.41	3,835.92	4,379.56	4,298.09	81.47	53.754	
8,350.00	7,725.97	7,869.03	7,771.13	52.29	31.36	-17.57	-2,213.61	3,835.99	4,342.45	4,260.92	81.53	53.264	
8,400.00	7,756.62	7,896.76	7,798.85	52.12	31.43	-23.61	-2,212.90	3,836.08	4,303.26	4,221.71	81.55	52.770	
8,450.00	7,783.98	7,920.44	7,822.53	51.92	31.50	-30.39	-2,212.28	3,836.17	4,262.29	4,180.75	81.53	52.276	
8,500.00	7,807.85	7,940.03	7,842.11	51.70	31.55	-38.14	-2,211.78	3,836.28	4,219.88	4,138.39	81.49	51.787	
8,550.00	7,828.05	7,956.44	7,858.51	51.45	31.60	-46.99	-2,211.37	3,836.38	4,176.36	4,094.95	81.41	51.301	
8,600.00	7,844.41	7,969.54	7,871.61	51.20	31.63	-56.85	-2,211.04	3,836.47	4,132.08	4,050.78	81.30	50.822	
8,650.00	7,856.82	7,979.21	7,881.28	50.93	31.66	-67.33	-2,210.80	3,836.54	4,087.40	4,006.22	81.17	50.353	
8,700.00	7,865.18	7,985.39	7,887.45	50.65	31.68	-77.77	-2,210.64	3,836.59	4,042.67	3,961.65	81.02	49.897	
8,750.00	7,869.43	7,988.00	7,890.06	50.36	31.68	-87.46	-2,210.58	3,836.61	3,998.27	3,917.42	80.85	49.456	
8,776.25	7,870.00	7,987.93	7,889.99	50.21	31.68	-92.08	-2,210.58	3,836.61	3,975.20	3,894.46	80.74	49.232	
8,800.00	7,870.00	7,987.42	7,889.49	50.08	31.68	-92.06	-2,210.59	3,836.61	3,954.46	3,873.81	80.65	49.032	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 120-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,985.28	7,887.35	49.53	31.68	-92.00	-2,210.65	3,836.59	3,867.48	3,787.22	80.25	48.190	
9,000.00	7,870.00	7,983.14	7,885.20	49.01	31.67	-91.94	-2,210.70	3,836.57	3,781.14	3,701.29	79.85	47.354	
9,100.00	7,870.00	7,980.99	7,883.05	48.52	31.66	-91.87	-2,210.75	3,836.56	3,695.49	3,616.05	79.43	46.523	
9,200.00	7,870.00	7,978.83	7,880.90	48.06	31.66	-91.81	-2,210.81	3,836.54	3,610.57	3,531.56	79.01	45.696	
9,300.00	7,870.00	7,976.67	7,878.74	47.63	31.65	-91.74	-2,210.86	3,836.52	3,526.45	3,447.86	78.58	44.875	
9,400.00	7,870.00	7,974.50	7,876.57	47.22	31.65	-91.68	-2,210.91	3,836.51	3,443.17	3,365.02	78.15	44.058	
9,500.00	7,870.00	7,972.33	7,874.40	46.83	31.64	-91.62	-2,210.97	3,836.49	3,360.80	3,283.09	77.72	43.245	
9,600.00	7,870.00	7,970.15	7,872.22	46.48	31.63	-91.55	-2,211.02	3,836.47	3,279.42	3,202.14	77.28	42.436	
9,700.00	7,870.00	7,967.97	7,870.04	46.14	31.63	-91.49	-2,211.08	3,836.46	3,199.08	3,122.23	76.85	41.629	
9,800.00	7,870.00	7,965.78	7,867.85	45.83	31.62	-91.42	-2,211.13	3,836.44	3,119.88	3,043.46	76.42	40.824	
9,900.00	7,870.00	7,963.58	7,865.66	45.54	31.62	-91.36	-2,211.19	3,836.43	3,041.91	2,965.90	76.01	40.021	
10,000.00	7,870.00	7,961.38	7,863.46	45.27	31.61	-91.29	-2,211.24	3,836.41	2,965.25	2,889.64	75.61	39.216	
10,100.00	7,870.00	7,959.18	7,861.25	45.03	31.60	-91.23	-2,211.30	3,836.39	2,890.02	2,814.78	75.24	38.409	
10,200.00	7,870.00	7,956.97	7,859.04	44.82	31.60	-91.16	-2,211.35	3,836.38	2,816.33	2,741.43	74.91	37.599	
10,300.00	7,870.00	7,954.75	7,856.82	44.66	31.59	-91.09	-2,211.41	3,836.37	2,744.31	2,669.70	74.61	36.782	
10,400.00	7,870.00	7,952.53	7,854.60	44.56	31.59	-91.03	-2,211.47	3,836.35	2,674.08	2,599.71	74.37	35.956	
10,500.00	7,870.00	7,950.30	7,852.37	44.58	31.58	-90.96	-2,211.52	3,836.34	2,605.79	2,531.59	74.20	35.119	
10,600.00	7,870.00	7,948.06	7,850.14	44.82	31.57	-90.90	-2,211.58	3,836.32	2,539.61	2,465.50	74.11	34.270	
10,700.00	7,870.00	7,945.82	7,847.90	45.36	31.57	-90.83	-2,211.64	3,836.31	2,475.69	2,401.58	74.11	33.405	
10,800.00	7,870.00	7,943.58	7,845.65	46.15	31.56	-90.76	-2,211.69	3,836.30	2,414.23	2,340.00	74.23	32.524	
10,900.00	7,870.00	7,941.32	7,843.40	47.09	31.56	-90.70	-2,211.75	3,836.28	2,355.40	2,280.92	74.48	31.626	
11,000.00	7,870.00	7,939.07	7,841.15	48.13	31.55	-90.63	-2,211.81	3,836.27	2,299.42	2,224.55	74.87	30.713	
11,100.00	7,870.00	7,936.80	7,838.88	49.22	31.54	-90.56	-2,211.86	3,836.26	2,246.49	2,171.07	75.41	29.788	
11,200.00	7,870.00	7,934.53	7,836.61	50.37	31.54	-90.49	-2,211.92	3,836.24	2,196.84	2,120.71	76.13	28.856	
11,300.00	7,870.00	7,932.26	7,834.34	51.55	31.53	-90.43	-2,211.98	3,836.23	2,150.69	2,073.67	77.02	27.923	
11,400.00	7,870.00	7,929.97	7,832.06	52.76	31.52	-90.36	-2,212.04	3,836.22	2,108.28	2,030.18	78.09	26.997	
11,500.00	7,870.00	7,927.69	7,829.77	54.00	31.52	-90.29	-2,212.10	3,836.21	2,069.83	1,990.49	79.34	26.089	
11,600.00	7,870.00	7,925.39	7,827.48	55.27	31.51	-90.22	-2,212.16	3,836.20	2,035.56	1,954.82	80.74	25.210	
11,700.00	7,870.00	7,923.09	7,825.18	56.56	31.50	-90.15	-2,212.21	3,836.19	2,005.70	1,923.40	82.30	24.371	
11,800.00	7,870.00	7,920.79	7,822.87	57.88	31.50	-90.09	-2,212.27	3,836.18	1,980.45	1,896.46	83.98	23.581	
11,900.00	7,870.00	7,918.48	7,820.56	59.21	31.49	-90.02	-2,212.33	3,836.16	1,959.97	1,874.20	85.77	22.851	
12,000.00	7,870.00	7,916.16	7,818.25	60.57	31.49	-89.95	-2,212.39	3,836.15	1,944.42	1,856.79	87.63	22.188	
12,100.00	7,870.00	7,914.02	7,816.11	61.94	31.48	-89.88	-2,212.45	3,836.15	1,933.92	1,844.38	89.54	21.599	
12,200.00	7,870.00	7,911.58	7,813.67	63.33	31.47	-89.81	-2,212.51	3,836.14	1,928.55	1,837.10	91.45	21.089	
12,253.72	7,870.00	7,910.26	7,812.35	64.09	31.47	-89.77	-2,212.55	3,836.13	1,927.80	1,835.33	92.47	20.847 CC	
12,300.00	7,870.00	7,909.13	7,811.22	64.74	31.47	-89.74	-2,212.57	3,836.13	1,928.36	1,835.01	93.35	20.658 ES	
12,400.00	7,870.00	7,906.68	7,808.77	66.16	31.46	-89.67	-2,212.64	3,836.12	1,933.34	1,838.15	95.19	20.310	
12,500.00	7,870.00	7,904.23	7,806.33	67.59	31.45	-89.59	-2,212.70	3,836.11	1,943.46	1,846.49	96.97	20.042	
12,600.00	7,870.00	7,901.78	7,803.88	69.04	31.45	-89.52	-2,212.76	3,836.10	1,958.64	1,859.98	98.65	19.854	
12,700.00	7,870.00	7,899.33	7,801.43	70.51	31.44	-89.45	-2,212.83	3,836.09	1,978.75	1,878.53	100.23	19.743	
12,800.00	7,870.00	7,896.88	7,798.97	71.98	31.43	-89.38	-2,212.89	3,836.08	2,003.66	1,901.98	101.68	19.705 SF	
12,900.00	7,870.00	7,894.43	7,796.52	73.47	31.43	-89.30	-2,212.96	3,836.07	2,033.18	1,930.17	103.01	19.738	
13,000.00	7,870.00	7,891.97	7,794.07	74.96	31.42	-89.23	-2,213.02	3,836.06	2,067.12	1,962.91	104.21	19.836	
13,100.00	7,870.00	7,889.51	7,791.61	76.47	31.41	-89.16	-2,213.08	3,836.05	2,105.27	1,999.99	105.28	19.997	
13,200.00	7,870.00	7,887.05	7,789.15	77.99	31.41	-89.08	-2,213.15	3,836.04	2,147.39	2,041.17	106.23	20.215	
13,300.00	7,870.00	7,884.59	7,786.69	79.51	31.40	-89.01	-2,213.21	3,836.04	2,193.27	2,086.21	107.05	20.487	
13,400.00	7,870.00	7,882.13	7,784.23	81.05	31.39	-88.94	-2,213.27	3,836.03	2,242.66	2,134.89	107.77	20.810	
13,500.00	7,870.00	7,879.67	7,781.77	82.59	31.39	-88.86	-2,213.34	3,836.02	2,295.35	2,186.97	108.38	21.178	
13,600.00	7,870.00	7,877.21	7,779.31	84.14	31.38	-88.79	-2,213.40	3,836.01	2,351.11	2,242.21	108.90	21.589	
13,700.00	7,870.00	7,874.74	7,776.84	85.70	31.37	-88.72	-2,213.47	3,836.00	2,409.73	2,300.39	109.34	22.039	
13,800.00	7,870.00	7,872.28	7,774.38	87.26	31.36	-88.64	-2,213.53	3,836.00	2,471.01	2,361.31	109.70	22.526	
13,900.00	7,870.00	7,869.81	7,771.91	88.83	31.36	-88.57	-2,213.59	3,835.99	2,534.74	2,424.76	109.99	23.046	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 120-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,867.34	7,769.44	90.41	31.35	-88.50	-2,213.66	3,835.98	2,600.76	2,490.55	110.22	23.597	
14,100.00	7,870.00	7,864.87	7,766.97	92.00	31.34	-88.42	-2,213.72	3,835.98	2,668.89	2,558.50	110.39	24.177	
14,200.00	7,870.00	7,862.40	7,764.50	93.59	31.34	-88.35	-2,213.79	3,835.97	2,738.98	2,628.46	110.52	24.782	
14,300.00	7,870.00	7,859.92	7,762.03	95.18	31.33	-88.28	-2,213.85	3,835.96	2,810.87	2,700.26	110.61	25.412	
14,400.00	7,870.00	7,857.45	7,759.55	96.79	31.32	-88.20	-2,213.92	3,835.96	2,884.44	2,773.77	110.67	26.063	
14,500.00	7,870.00	7,854.97	7,757.08	98.39	31.32	-88.13	-2,213.98	3,835.95	2,959.56	2,848.86	110.70	26.736	
14,600.00	7,870.00	7,852.49	7,754.60	100.00	31.31	-88.06	-2,214.04	3,835.95	3,036.10	2,925.41	110.70	27.427	
14,700.00	7,870.00	7,850.01	7,752.12	101.62	31.30	-87.98	-2,214.11	3,835.94	3,113.98	3,003.30	110.68	28.136	
14,800.00	7,870.00	7,847.53	7,749.64	103.24	31.30	-87.91	-2,214.17	3,835.93	3,193.09	3,082.45	110.64	28.861	
14,900.00	7,870.00	7,845.05	7,747.16	104.87	31.29	-87.84	-2,214.24	3,835.93	3,273.34	3,162.75	110.58	29.601	
15,000.00	7,870.00	7,842.57	7,744.68	106.50	31.28	-87.76	-2,214.30	3,835.92	3,354.65	3,244.13	110.51	30.355	
15,100.00	7,870.00	7,840.08	7,742.20	108.13	31.28	-87.69	-2,214.37	3,835.92	3,436.94	3,326.50	110.44	31.122	
15,200.00	7,870.00	7,837.60	7,739.71	109.77	31.27	-87.61	-2,214.43	3,835.91	3,520.15	3,409.80	110.35	31.900	
15,300.00	7,870.00	7,835.11	7,737.23	111.41	31.26	-87.54	-2,214.50	3,835.91	3,604.21	3,493.95	110.25	32.690	
15,400.00	7,870.00	7,832.62	7,734.74	113.05	31.26	-87.47	-2,214.56	3,835.91	3,689.06	3,578.91	110.15	33.490	
15,500.00	7,870.00	7,830.13	7,732.25	114.70	31.25	-87.39	-2,214.63	3,835.90	3,774.65	3,664.60	110.05	34.300	
15,600.00	7,870.00	7,827.64	7,729.76	116.35	31.24	-87.32	-2,214.69	3,835.90	3,860.94	3,751.00	109.94	35.119	
15,700.00	7,870.00	7,825.15	7,727.27	118.00	31.23	-87.25	-2,214.76	3,835.89	3,947.87	3,838.04	109.83	35.946	
15,800.00	7,870.00	7,822.65	7,724.77	119.66	31.23	-87.17	-2,214.82	3,835.89	4,035.40	3,925.68	109.72	36.780	
15,900.00	7,870.00	7,820.16	7,722.28	121.32	31.22	-87.10	-2,214.89	3,835.89	4,123.50	4,013.90	109.60	37.622	
16,000.00	7,870.00	7,817.66	7,719.78	122.98	31.21	-87.02	-2,214.95	3,835.88	4,212.13	4,102.64	109.49	38.471	
16,100.00	7,870.00	7,815.27	7,717.39	124.65	31.21	-86.95	-2,215.02	3,835.88	4,301.26	4,191.88	109.37	39.326	
16,200.00	7,870.00	7,813.09	7,715.21	126.32	31.20	-86.89	-2,215.07	3,835.88	4,390.85	4,281.59	109.26	40.187	
16,300.00	7,870.00	7,810.91	7,713.04	127.99	31.20	-86.82	-2,215.13	3,835.88	4,480.88	4,371.74	109.15	41.054	
16,400.00	7,870.00	7,808.74	7,710.86	129.66	31.19	-86.76	-2,215.19	3,835.87	4,571.33	4,462.29	109.03	41.926	
16,500.00	7,870.00	7,806.57	7,708.69	131.33	31.18	-86.70	-2,215.24	3,835.87	4,662.16	4,553.24	108.92	42.802	
16,600.00	7,870.00	7,804.40	7,706.53	133.01	31.18	-86.63	-2,215.30	3,835.87	4,753.36	4,644.55	108.81	43.683	
16,700.00	7,870.00	7,802.24	7,704.37	134.69	31.17	-86.57	-2,215.36	3,835.87	4,844.91	4,736.20	108.71	44.568	
16,800.00	7,870.00	7,800.08	7,702.21	136.37	31.16	-86.50	-2,215.41	3,835.87	4,936.79	4,828.18	108.60	45.458	
16,900.00	7,870.00	7,797.92	7,700.05	138.06	31.16	-86.44	-2,215.47	3,835.87	5,028.97	4,920.47	108.50	46.351	
17,000.00	7,870.00	7,795.77	7,697.90	139.74	31.15	-86.38	-2,215.52	3,835.87	5,121.44	5,013.05	108.40	47.247	
17,100.00	7,870.00	7,793.62	7,695.75	141.43	31.15	-86.31	-2,215.58	3,835.87	5,214.20	5,105.90	108.30	48.147	
17,200.00	7,870.00	7,791.48	7,693.61	143.12	31.14	-86.25	-2,215.64	3,835.88	5,307.21	5,199.01	108.20	49.049	
17,300.00	7,870.00	7,789.33	7,691.46	144.81	31.13	-86.18	-2,215.69	3,835.88	5,400.47	5,292.37	108.11	49.955	
17,400.00	7,870.00	7,787.19	7,689.33	146.50	31.13	-86.12	-2,215.75	3,835.88	5,493.97	5,385.96	108.01	50.863	
17,500.00	7,870.00	7,785.06	7,687.19	148.19	31.12	-86.06	-2,215.80	3,835.88	5,587.70	5,479.77	107.92	51.774	
17,600.00	7,870.00	7,782.92	7,685.06	149.89	31.12	-86.00	-2,215.86	3,835.89	5,681.63	5,573.80	107.84	52.687	
17,700.00	7,870.00	7,780.79	7,682.93	151.59	31.11	-85.93	-2,215.91	3,835.89	5,775.77	5,668.02	107.75	53.602	
17,800.00	7,870.00	7,778.67	7,680.80	153.29	31.11	-85.87	-2,215.97	3,835.89	5,870.10	5,762.43	107.67	54.520	
17,900.00	7,870.00	7,776.55	7,678.68	154.99	31.10	-85.81	-2,216.02	3,835.90	5,964.62	5,857.03	107.59	55.439	
18,000.00	7,870.00	7,774.43	7,676.56	156.69	31.09	-85.74	-2,216.08	3,835.90	6,059.31	5,951.80	107.51	56.360	
18,100.00	7,870.00	7,772.31	7,674.45	158.39	31.09	-85.68	-2,216.13	3,835.91	6,154.17	6,046.73	107.43	57.283	
18,200.00	7,870.00	7,770.20	7,672.33	160.09	31.08	-85.62	-2,216.18	3,835.91	6,249.18	6,141.82	107.36	58.207	
18,300.00	7,870.00	7,768.09	7,670.22	161.80	31.08	-85.56	-2,216.24	3,835.92	6,344.35	6,237.06	107.29	59.133	
18,400.00	7,870.00	7,765.98	7,668.12	163.51	31.07	-85.49	-2,216.29	3,835.92	6,439.67	6,332.45	107.22	60.060	
18,455.45	7,870.00	7,764.81	7,666.95	164.45	31.07	-85.46	-2,216.32	3,835.93	6,492.58	6,385.40	107.18	60.574	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	123.57	-3,056.68	4,606.33	5,528.45				
100.00	100.00	48.14	48.14	0.13	0.08	123.57	-3,056.77	4,606.30	5,528.28	5,528.07	0.21	N/A	
200.00	200.00	149.02	149.01	0.49	0.35	123.57	-3,057.35	4,606.06	5,528.40	5,527.56	0.84	6,558.845	
300.00	300.00	207.29	207.29	0.85	0.56	123.58	-3,057.72	4,605.97	5,528.72	5,527.31	1.41	3,924.438	
400.00	400.00	245.30	245.29	1.21	0.69	123.58	-3,058.06	4,606.38	5,530.10	5,528.20	1.90	2,907.734	
500.00	500.00	273.00	272.98	1.57	0.79	123.58	-3,058.37	4,606.95	5,532.64	5,530.28	2.36	2,346.046	
600.00	600.00	315.37	315.33	1.93	0.94	123.57	-3,058.91	4,608.39	5,536.31	5,533.44	2.87	1,932.099	
700.00	700.00	364.00	363.88	2.29	1.11	123.57	-3,059.58	4,610.96	5,541.26	5,537.87	3.39	1,633.428	
800.00	800.00	364.00	363.88	2.64	1.11	123.57	-3,059.58	4,610.96	5,547.38	5,543.63	3.75	1,479.155	
900.00	900.00	404.06	403.83	3.00	1.26	123.56	-3,060.28	4,613.90	5,554.74	5,550.49	4.25	1,307.141	
1,000.00	1,000.00	455.00	454.51	3.36	1.45	123.54	-3,061.49	4,618.82	5,563.70	5,558.91	4.78	1,162.877	
1,100.00	1,100.00	455.00	454.51	3.72	1.45	123.54	-3,061.49	4,618.82	5,573.55	5,568.41	5.14	1,084.934	
1,200.00	1,200.00	778.58	774.76	4.08	2.71	123.28	-3,055.66	4,654.63	5,580.83	5,574.15	6.69	834.484	
1,300.00	1,300.00	824.00	819.44	4.44	2.88	123.24	-3,055.34	4,662.49	5,591.24	5,584.03	7.21	775.571	
1,400.00	1,399.98	824.00	819.44	4.79	2.88	80.13	-3,055.34	4,662.49	5,599.59	5,592.03	7.56	740.839	
1,500.00	1,499.84	824.00	819.44	5.15	2.88	79.94	-3,055.34	4,662.49	5,609.11	5,601.21	7.90	709.711	
1,600.00	1,599.45	824.00	819.44	5.51	2.88	79.73	-3,055.34	4,662.49	5,619.79	5,611.54	8.25	681.300	
1,700.00	1,698.70	824.00	819.44	5.87	2.88	79.49	-3,055.34	4,662.49	5,631.61	5,623.01	8.60	655.053	
1,800.00	1,797.47	824.00	819.44	6.24	2.88	79.24	-3,055.34	4,662.49	5,644.54	5,635.59	8.95	630.478	
1,900.00	1,895.62	824.00	819.44	6.63	2.88	78.96	-3,055.34	4,662.49	5,658.57	5,649.25	9.32	607.154	
2,000.00	1,993.06	824.00	819.44	7.04	2.88	78.66	-3,055.34	4,662.49	5,673.67	5,663.97	9.70	584.739	
2,100.00	2,089.64	824.00	819.44	7.48	2.88	78.34	-3,055.34	4,662.49	5,689.81	5,679.70	10.11	562.967	
2,200.00	2,185.27	861.12	855.52	7.94	3.07	78.09	-3,057.36	4,670.94	5,706.61	5,695.93	10.69	534.058	
2,300.00	2,279.82	919.00	911.53	8.45	3.35	77.88	-3,060.38	4,685.24	5,724.00	5,712.61	11.39	502.572	
2,400.00	2,373.17	919.00	911.53	8.99	3.35	77.54	-3,060.38	4,685.24	5,741.52	5,729.64	11.88	483.205	
2,500.00	2,465.21	952.10	943.40	9.58	3.53	77.27	-3,062.16	4,694.03	5,759.64	5,747.08	12.56	458.433	
2,574.08	2,532.50	971.26	961.77	10.04	3.63	77.06	-3,063.29	4,699.31	5,773.40	5,760.33	13.07	441.709	
2,600.00	2,555.89	977.92	968.16	10.21	3.67	77.08	-3,063.70	4,701.19	5,778.30	5,765.05	13.25	436.027	
2,700.00	2,646.16	1,013.00	1,001.65	10.88	3.85	77.20	-3,066.00	4,711.33	5,798.04	5,784.03	14.01	413.877	
2,800.00	2,736.44	1,013.00	1,001.65	11.57	3.85	77.20	-3,066.00	4,711.33	5,819.04	5,804.41	14.62	397.890	
2,900.00	2,826.71	1,053.50	1,040.14	12.27	4.10	77.33	-3,069.06	4,723.58	5,841.16	5,825.71	15.45	378.187	
3,000.00	2,916.98	1,107.00	1,090.64	13.00	4.42	77.51	-3,073.94	4,740.55	5,864.85	5,848.51	16.34	358.927	
3,100.00	3,007.25	1,107.00	1,090.64	13.73	4.42	77.51	-3,073.94	4,740.55	5,889.25	5,872.27	16.98	346.812	
3,200.00	3,097.52	1,142.18	1,123.67	14.48	4.65	77.62	-3,077.41	4,752.16	5,915.01	5,897.20	17.81	332.185	
3,300.00	3,187.80	1,185.44	1,164.12	15.23	4.93	77.76	-3,081.55	4,766.92	5,941.69	5,923.01	18.68	318.101	
3,400.00	3,278.07	1,239.61	1,214.56	15.99	5.30	77.93	-3,086.58	4,786.02	5,969.24	5,949.62	19.62	304.265	
3,500.00	3,368.34	1,316.45	1,286.05	16.76	5.84	78.17	-3,094.07	4,813.16	5,997.28	5,976.59	20.69	289.854	
3,600.00	3,458.61	1,414.55	1,377.25	17.54	6.54	78.46	-3,103.33	4,848.10	6,025.52	6,003.62	21.90	275.169	
3,700.00	3,548.89	1,505.85	1,462.00	18.32	7.22	78.73	-3,111.22	4,881.11	6,053.85	6,030.77	23.09	262.238	
3,800.00	3,639.16	1,554.79	1,507.34	19.10	7.59	78.87	-3,115.45	4,899.04	6,082.67	6,058.63	24.03	253.078	
3,900.00	3,729.43	1,616.80	1,564.66	19.89	8.06	79.04	-3,121.02	4,922.05	6,112.17	6,087.10	25.07	243.847	
4,000.00	3,819.70	1,782.66	1,718.00	20.69	9.34	79.51	-3,135.60	4,983.56	6,141.92	6,115.18	26.74	229.665	
4,100.00	3,909.98	1,833.49	1,765.08	21.48	9.73	79.65	-3,139.86	5,002.24	6,171.05	6,143.33	27.72	222.606	
4,200.00	4,000.25	1,900.19	1,826.74	22.28	10.25	79.83	-3,145.79	5,026.98	6,200.84	6,172.04	28.80	215.298	
4,300.00	4,090.52	2,158.75	2,067.33	23.08	12.21	80.55	-3,168.28	5,118.91	6,229.26	6,198.18	31.08	200.430	
4,400.00	4,180.79	2,192.47	2,098.78	23.88	12.47	80.64	-3,170.97	5,130.81	6,257.38	6,225.41	31.97	195.740	
4,500.00	4,271.06	2,252.00	2,153.97	24.69	12.93	80.80	-3,175.92	5,152.54	6,286.60	6,253.58	33.02	190.396	
4,600.00	4,361.34	2,330.80	2,226.92	25.49	13.54	81.01	-3,182.59	5,181.57	6,316.37	6,282.17	34.20	184.695	
4,700.00	4,451.61	2,409.71	2,300.13	26.30	14.16	81.22	-3,189.18	5,210.28	6,345.93	6,310.55	35.38	179.351	
4,800.00	4,541.88	4,800.00	2,402.71	27.11	32.72	81.50	-3,198.43	5,250.53	6,375.60	6,326.85	48.75	130.782	
4,900.00	4,632.15	2,581.58	2,459.61	27.92	15.50	81.66	-3,203.62	5,272.70	6,405.35	6,367.50	37.85	169.226	
5,000.00	4,722.43	2,630.00	2,504.38	28.74	15.88	81.79	-3,207.90	5,290.64	6,435.96	6,397.12	38.84	165.720	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	2,675.41	2,546.23	29.55	16.25	81.90	-3,212.00	5,307.79	6,467.31	6,427.50	39.80	162.477	
5,200.00	4,902.97	2,738.30	2,604.04	30.37	16.76	82.06	-3,217.67	5,331.88	6,499.23	6,458.34	40.89	158.931	
5,300.00	4,993.24	2,836.25	2,694.01	31.18	17.56	82.30	-3,226.63	5,369.56	6,531.46	6,489.23	42.23	154.647	
5,400.00	5,083.51	2,961.57	2,809.48	32.00	18.58	82.61	-3,237.88	5,416.95	6,563.11	6,519.33	43.77	149.940	
5,500.00	5,173.79	3,027.46	2,870.18	32.82	19.11	82.77	-3,244.05	5,441.81	6,595.11	6,550.23	44.89	146.925	
5,600.00	5,264.06	3,097.17	2,934.29	33.63	19.69	82.94	-3,250.58	5,468.41	6,627.53	6,581.50	46.03	143.975	
5,700.00	5,354.33	3,148.27	2,981.16	34.45	20.11	83.06	-3,255.35	5,488.20	6,660.46	6,613.42	47.05	141.573	
5,800.00	5,444.60	5,800.00	3,078.82	35.27	42.39	83.30	-3,265.08	5,530.19	6,693.78	6,630.79	62.99	106.267	
5,900.00	5,534.88	3,364.84	3,179.52	36.09	21.92	83.55	-3,274.63	5,572.95	6,726.57	6,676.64	49.94	134.706	
6,000.00	5,625.15	3,504.15	3,307.72	36.91	23.07	83.88	-3,287.86	5,625.85	6,759.33	6,707.72	51.61	130.982	
6,100.00	5,715.42	3,574.00	3,372.06	37.74	23.63	84.04	-3,294.20	5,652.27	6,791.80	6,739.04	52.76	128.728	
6,200.00	5,805.69	3,610.71	3,405.77	38.56	23.94	84.12	-3,297.52	5,666.42	6,824.92	6,771.25	53.67	127.159	
6,300.00	5,895.96	3,668.00	3,458.03	39.38	24.43	84.25	-3,303.07	5,689.22	6,859.15	6,804.41	54.74	125.308	
6,400.00	5,986.24	3,840.75	3,616.25	40.20	25.88	84.63	-3,319.10	5,756.67	6,892.92	6,836.23	56.70	121.570	
6,500.00	6,076.51	3,951.83	3,718.67	41.03	26.78	84.88	-3,330.14	5,798.23	6,925.98	6,867.81	58.17	119.067	
6,600.00	6,166.78	4,066.49	3,824.39	41.85	27.71	85.14	-3,340.88	5,841.28	6,958.84	6,899.17	59.67	116.619	
6,700.00	6,257.05	6,588.87	6,264.83	42.67	40.11	92.22	-3,454.97	6,325.09	6,989.51	6,917.24	72.27	96.711	
6,800.00	6,347.33	6,681.39	6,357.34	43.50	40.28	92.54	-3,454.22	6,324.79	6,990.61	6,917.20	73.41	95.231	
6,900.00	6,437.60	6,754.24	6,430.19	44.32	40.43	92.80	-3,453.61	6,324.69	6,992.05	6,917.54	74.51	93.840	
7,000.00	6,527.87	6,815.91	6,491.86	45.15	40.55	93.01	-3,453.02	6,324.94	6,994.03	6,918.44	75.59	92.520	
7,100.00	6,618.14	6,881.00	6,556.94	45.98	40.69	93.23	-3,452.40	6,325.74	6,996.74	6,920.05	76.69	91.238	
7,200.00	6,708.41	6,941.29	6,617.22	46.80	40.83	93.43	-3,451.81	6,326.85	7,000.05	6,922.28	77.77	90.008	
7,300.00	6,798.69	7,066.36	6,742.25	47.63	41.11	93.85	-3,450.37	6,329.31	7,003.65	6,924.65	79.00	88.655	
7,400.00	6,888.96	7,192.03	6,867.90	48.45	41.39	94.27	-3,448.35	6,331.16	7,006.81	6,926.59	80.22	87.342	
7,500.00	6,979.23	7,296.50	6,972.34	49.28	41.62	94.63	-3,446.59	6,332.50	7,010.07	6,928.68	81.40	86.122	
7,600.00	7,069.50	7,388.68	7,064.51	50.11	41.81	94.94	-3,445.08	6,333.14	7,013.23	6,930.70	82.54	84.970	
7,692.09	7,152.63	7,448.00	7,123.82	50.87	41.93	95.14	-3,444.78	6,333.19	7,016.72	6,933.19	83.53	84.004	
7,700.00	7,159.79	7,448.00	7,123.82	50.93	41.93	93.95	-3,444.78	6,333.19	7,016.99	6,933.39	83.60	83.933	
7,750.00	7,205.70	7,546.42	7,222.23	51.32	42.12	85.18	-3,444.53	6,332.78	7,016.73	6,932.49	84.24	83.297	
7,800.00	7,252.52	7,738.76	7,414.54	51.66	42.50	73.71	-3,441.62	6,330.62	7,012.53	6,927.54	85.00	82.505	
7,850.00	7,299.89	7,771.16	7,446.93	51.96	42.56	59.03	-3,440.77	6,330.22	7,004.46	6,919.04	85.42	82.002	
7,900.00	7,347.44	7,812.12	7,487.87	52.20	42.64	43.01	-3,439.70	6,329.75	6,993.13	6,907.33	85.80	81.503	
7,950.00	7,394.83	7,823.00	7,498.75	52.39	42.67	27.71	-3,439.42	6,329.63	6,978.69	6,892.61	86.08	81.076	
8,000.00	7,441.68	7,823.00	7,498.75	52.53	42.67	14.62	-3,439.42	6,329.63	6,961.42	6,875.15	86.27	80.692	
8,050.00	7,487.65	7,823.00	7,498.75	52.62	42.67	3.96	-3,439.42	6,329.63	6,941.45	6,855.04	86.41	80.330	
8,100.00	7,532.37	7,866.05	7,541.78	52.67	42.76	-4.76	-3,438.63	6,329.41	6,918.37	6,831.79	86.59	79.900	
8,150.00	7,575.52	7,876.91	7,552.64	52.67	42.78	-12.11	-3,438.53	6,329.43	6,893.10	6,806.45	86.65	79.554	
8,200.00	7,616.76	7,918.00	7,593.74	52.63	42.87	-18.66	-3,438.49	6,329.80	6,865.77	6,779.05	86.72	79.172	
8,250.00	7,655.77	7,918.00	7,593.74	52.55	42.87	-24.64	-3,438.49	6,329.80	6,835.91	6,749.25	86.66	78.882	
8,300.00	7,692.27	7,918.00	7,593.74	52.44	42.87	-30.39	-3,438.49	6,329.80	6,804.19	6,717.64	86.55	78.614	
8,350.00	7,725.97	7,918.00	7,593.74	52.29	42.87	-36.09	-3,438.49	6,329.80	6,770.84	6,684.44	86.40	78.367	
8,400.00	7,756.62	7,932.53	7,608.26	52.12	42.91	-41.97	-3,438.58	6,330.02	6,736.05	6,649.81	86.24	78.108	
8,450.00	7,783.98	7,952.15	7,627.88	51.92	42.96	-48.09	-3,438.70	6,330.35	6,700.03	6,613.98	86.05	77.858	
8,500.00	7,807.85	7,969.31	7,645.04	51.70	43.00	-54.41	-3,438.80	6,330.67	6,663.05	6,577.22	85.83	77.632	
8,550.00	7,828.05	7,983.87	7,659.60	51.45	43.04	-60.89	-3,438.89	6,330.96	6,625.41	6,539.85	85.56	77.433	
8,600.00	7,844.41	8,600.00	7,730.42	51.20	44.60	-68.10	-3,438.55	6,332.80	6,587.29	6,500.27	87.03	75.691	
8,650.00	7,856.82	8,650.00	7,742.36	50.93	44.73	-74.57	-3,438.41	6,333.13	6,549.12	6,462.30	86.82	75.434	
8,700.00	7,865.18	8,176.28	7,851.89	50.65	43.51	-82.05	-3,435.92	6,336.19	6,511.14	6,426.19	84.95	76.645	
8,750.00	7,869.43	8,182.46	7,858.07	50.36	43.53	-87.73	-3,435.75	6,336.33	6,473.81	6,389.23	84.57	76.548	
8,776.25	7,870.00	8,182.10	7,857.71	50.21	43.53	-90.45	-3,435.76	6,336.32	6,454.57	6,370.22	84.36	76.515	
8,800.00	7,870.00	8,180.65	7,856.25	50.08	43.53	-90.43	-3,435.80	6,336.29	6,437.33	6,353.17	84.16	76.489	
8,900.00	7,870.00	8,174.50	7,850.11	49.53	43.51	-90.35	-3,435.98	6,336.15	6,365.18	6,281.84	83.34	76.379	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 91-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,168.32	7,843.94	49.01	43.50	-90.27	-3,436.15	6,336.00	6,293.79	6,211.27	82.52	76.270	
9,100.00	7,870.00	8,162.11	7,837.73	48.52	43.48	-90.19	-3,436.33	6,335.85	6,223.18	6,141.47	81.71	76.159	
9,200.00	7,870.00	8,155.86	7,831.49	48.06	43.47	-90.11	-3,436.51	6,335.69	6,153.39	6,072.47	80.92	76.044	
9,300.00	7,870.00	9,300.00	7,747.97	47.63	46.39	-89.03	-3,438.34	6,333.29	6,084.41	6,000.71	83.69	72.698	
9,400.00	7,870.00	9,400.00	7,746.79	47.22	46.64	-89.01	-3,438.35	6,333.26	6,016.30	5,933.03	83.27	72.254	
9,500.00	7,870.00	8,136.94	7,812.58	46.83	43.42	-89.87	-3,437.05	6,335.18	5,949.16	5,870.51	78.65	75.639	
9,600.00	7,870.00	8,130.57	7,806.21	46.48	43.40	-89.78	-3,437.23	6,334.99	5,882.90	5,804.95	77.95	75.471	
9,700.00	7,870.00	8,124.16	7,799.81	46.14	43.39	-89.70	-3,437.42	6,334.80	5,817.60	5,740.32	77.28	75.280	
9,800.00	7,870.00	8,117.72	7,793.37	45.83	43.37	-89.62	-3,437.60	6,334.61	5,753.30	5,676.65	76.65	75.061	
9,900.00	7,870.00	9,900.00	7,740.87	45.54	47.92	-88.94	-3,438.42	6,333.09	5,689.88	5,608.27	81.61	69.718	
10,000.00	7,870.00	8,101.21	7,776.88	45.27	43.33	-89.40	-3,438.08	6,334.08	5,627.81	5,552.29	75.52	74.520	
10,100.00	7,870.00	8,083.54	7,759.23	45.03	43.29	-89.18	-3,438.51	6,333.53	5,566.69	5,491.67	75.02	74.201	
10,200.00	7,870.00	8,072.67	7,748.37	44.82	43.26	-89.03	-3,438.71	6,333.21	5,506.71	5,432.11	74.60	73.818	
10,300.00	7,870.00	8,065.31	7,741.01	44.66	43.24	-88.94	-3,438.82	6,332.99	5,447.89	5,373.64	74.25	73.373	
10,400.00	7,870.00	8,060.00	7,735.70	44.56	43.23	-88.87	-3,438.89	6,332.84	5,390.29	5,316.31	73.98	72.862	
10,500.00	7,870.00	8,055.98	7,731.68	44.58	43.22	-88.82	-3,438.94	6,332.73	5,333.94	5,260.14	73.79	72.282	
10,600.00	7,870.00	8,052.83	7,728.53	44.82	43.21	-88.78	-3,438.97	6,332.64	5,278.88	5,205.18	73.70	71.631	
10,700.00	7,870.00	8,050.30	7,726.01	45.36	43.20	-88.75	-3,438.99	6,332.57	5,225.15	5,151.46	73.69	70.907	
10,800.00	7,870.00	8,048.23	7,723.93	46.15	43.20	-88.72	-3,439.01	6,332.52	5,172.80	5,099.02	73.78	70.109	
10,900.00	7,870.00	8,046.49	7,722.20	47.09	43.19	-88.70	-3,439.02	6,332.47	5,121.87	5,047.89	73.98	69.237	
11,000.00	7,870.00	8,045.02	7,720.72	48.13	43.19	-88.68	-3,439.03	6,332.43	5,072.40	4,998.12	74.28	68.292	
11,100.00	7,870.00	8,043.75	7,719.46	49.22	43.19	-88.66	-3,439.04	6,332.40	5,024.42	4,949.74	74.68	67.278	
11,200.00	7,870.00	8,042.65	7,718.36	50.37	43.18	-88.65	-3,439.05	6,332.37	4,978.00	4,902.80	75.20	66.199	
11,300.00	7,870.00	8,041.69	7,717.40	51.55	43.18	-88.63	-3,439.05	6,332.34	4,933.17	4,857.35	75.82	65.062	
11,400.00	7,870.00	8,040.84	7,716.55	52.76	43.18	-88.62	-3,439.06	6,332.32	4,889.97	4,813.41	76.56	63.872	
11,500.00	7,870.00	8,040.08	7,715.79	54.00	43.18	-88.61	-3,439.06	6,332.30	4,848.45	4,771.04	77.40	62.638	
11,600.00	7,870.00	8,039.40	7,715.11	55.27	43.18	-88.60	-3,439.06	6,332.28	4,808.65	4,730.29	78.36	61.369	
11,700.00	7,870.00	8,038.79	7,714.50	56.56	43.17	-88.60	-3,439.07	6,332.26	4,770.61	4,691.20	79.41	60.072	
11,800.00	7,870.00	8,038.24	7,713.95	57.88	43.17	-88.59	-3,439.07	6,332.25	4,734.38	4,653.81	80.57	58.758	
11,900.00	7,870.00	8,037.73	7,713.44	59.21	43.17	-88.58	-3,439.07	6,332.24	4,700.00	4,618.17	81.83	57.434	
12,000.00	7,870.00	8,037.27	7,712.98	60.57	43.17	-88.58	-3,439.07	6,332.22	4,667.51	4,584.33	83.19	56.108	
12,100.00	7,870.00	8,036.85	7,712.56	61.94	43.17	-88.57	-3,439.07	6,332.21	4,636.95	4,552.32	84.63	54.790	
12,200.00	7,870.00	8,036.46	7,712.17	63.33	43.17	-88.57	-3,439.08	6,332.20	4,608.36	4,522.20	86.16	53.487	
12,300.00	7,870.00	8,036.10	7,711.81	64.74	43.17	-88.56	-3,439.08	6,332.19	4,581.77	4,494.00	87.77	52.204	
12,400.00	7,870.00	8,035.77	7,711.48	66.16	43.17	-88.56	-3,439.08	6,332.19	4,557.22	4,467.77	89.45	50.947	
12,500.00	7,870.00	8,035.46	7,711.17	67.59	43.17	-88.55	-3,439.08	6,332.18	4,534.74	4,443.54	91.20	49.723	
12,600.00	7,870.00	8,035.17	7,710.88	69.04	43.16	-88.55	-3,439.08	6,332.17	4,514.37	4,421.36	93.01	48.535	
12,700.00	7,870.00	8,034.90	7,710.61	70.51	43.16	-88.55	-3,439.08	6,332.16	4,496.13	4,401.25	94.88	47.386	
12,800.00	7,870.00	8,034.65	7,710.36	71.98	43.16	-88.54	-3,439.08	6,332.16	4,480.05	4,383.25	96.80	46.280	
12,900.00	7,870.00	8,034.42	7,710.13	73.47	43.16	-88.54	-3,439.08	6,332.15	4,466.15	4,367.38	98.77	45.219	
13,000.00	7,870.00	8,034.19	7,709.90	74.96	43.16	-88.54	-3,439.08	6,332.14	4,454.45	4,353.68	100.77	44.205	
13,100.00	7,870.00	8,033.99	7,709.69	76.47	43.16	-88.53	-3,439.08	6,332.14	4,444.97	4,342.17	102.80	43.238	
13,200.00	7,870.00	8,033.79	7,709.50	77.99	43.16	-88.53	-3,439.08	6,332.13	4,437.73	4,332.87	104.86	42.321	
13,300.00	7,870.00	8,033.60	7,709.31	79.51	43.16	-88.53	-3,439.08	6,332.13	4,432.73	4,325.79	106.94	41.452	
13,400.00	7,870.00	8,033.43	7,709.14	81.05	43.16	-88.53	-3,439.08	6,332.12	4,429.98	4,320.95	109.03	40.632	
13,471.78	7,870.00	8,033.31	7,709.02	82.15	43.16	-88.53	-3,439.08	6,332.12	4,429.40	4,318.86	110.53	40.073 CC	
13,500.00	7,870.00	8,033.26	7,708.97	82.59	43.16	-88.52	-3,439.08	6,332.12	4,429.49	4,318.36	111.12	39.861	
13,600.00	7,870.00	8,033.10	7,708.81	84.14	43.16	-88.52	-3,439.09	6,332.12	4,431.25	4,318.03	113.22	39.138 ES	
13,700.00	7,870.00	8,032.95	7,708.66	85.70	43.16	-88.52	-3,439.09	6,332.11	4,435.27	4,319.96	115.32	38.462	
13,800.00	7,870.00	8,032.81	7,708.52	87.26	43.16	-88.52	-3,439.09	6,332.11	4,441.54	4,324.14	117.40	37.833	
13,900.00	7,870.00	8,032.67	7,708.38	88.83	43.16	-88.52	-3,439.09	6,332.11	4,450.05	4,330.58	119.47	37.249	
14,000.00	7,870.00	8,032.54	7,708.25	90.41	43.16	-88.52	-3,439.09	6,332.10	4,460.78	4,339.26	121.52	36.709	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 91-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	8,032.42	7,708.13	92.00	43.16	-88.51	-3,439.09	6,332.10	4,473.72	4,350.18	123.54	36.213	
14,200.00	7,870.00	8,032.30	7,708.01	93.59	43.16	-88.51	-3,439.09	6,332.10	4,488.86	4,363.33	125.53	35.758	
14,300.00	7,870.00	8,032.18	7,707.89	95.18	43.16	-88.51	-3,439.09	6,332.09	4,506.16	4,378.67	127.49	35.344	
14,400.00	7,870.00	8,032.08	7,707.79	96.79	43.16	-88.51	-3,439.09	6,332.09	4,525.61	4,396.19	129.42	34.969	
14,500.00	7,870.00	8,031.97	7,707.68	98.39	43.16	-88.51	-3,439.09	6,332.09	4,547.17	4,415.87	131.30	34.631	
14,600.00	7,870.00	8,031.87	7,707.58	100.00	43.16	-88.51	-3,439.09	6,332.08	4,570.82	4,437.68	133.14	34.330	
14,700.00	7,870.00	8,031.78	7,707.49	101.62	43.16	-88.51	-3,439.09	6,332.08	4,596.53	4,461.59	134.94	34.063	
14,800.00	7,870.00	8,031.68	7,707.39	103.24	43.16	-88.50	-3,439.09	6,332.08	4,624.25	4,487.56	136.69	33.831	
14,900.00	7,870.00	8,031.59	7,707.30	104.87	43.16	-88.50	-3,439.09	6,332.08	4,653.96	4,515.57	138.39	33.630	
15,000.00	7,870.00	8,031.51	7,707.22	106.50	43.16	-88.50	-3,439.09	6,332.08	4,685.62	4,545.58	140.03	33.461	
15,100.00	7,870.00	8,031.43	7,707.14	108.13	43.16	-88.50	-3,439.09	6,332.07	4,719.18	4,577.55	141.63	33.321	
15,200.00	7,870.00	8,012.00	7,687.72	109.77	43.11	-88.25	-3,439.05	6,331.59	4,754.69	4,611.52	143.17	33.210	
15,300.00	7,870.00	8,012.00	7,687.72	111.41	43.11	-88.25	-3,439.05	6,331.59	4,791.94	4,647.28	144.66	33.126	
15,400.00	7,870.00	8,012.00	7,687.72	113.05	43.11	-88.25	-3,439.05	6,331.59	4,830.98	4,684.89	146.09	33.068	
15,500.00	7,870.00	8,012.00	7,687.72	114.70	43.11	-88.25	-3,439.05	6,331.59	4,871.76	4,724.28	147.47	33.035	
15,600.00	7,870.00	8,012.00	7,687.72	116.35	43.11	-88.25	-3,439.05	6,331.59	4,914.23	4,765.43	148.80	33.026	SF
15,700.00	7,870.00	8,012.00	7,687.72	118.00	43.11	-88.25	-3,439.05	6,331.59	4,958.36	4,808.29	150.07	33.040	
15,800.00	7,870.00	8,012.00	7,687.72	119.66	43.11	-88.25	-3,439.05	6,331.59	5,004.09	4,852.80	151.29	33.076	
15,900.00	7,870.00	8,012.00	7,687.72	121.32	43.11	-88.25	-3,439.05	6,331.59	5,051.40	4,898.94	152.46	33.133	
16,000.00	7,870.00	8,012.00	7,687.72	122.98	43.11	-88.25	-3,439.05	6,331.59	5,100.22	4,946.65	153.57	33.211	
16,100.00	7,870.00	8,012.00	7,687.72	124.65	43.11	-88.25	-3,439.05	6,331.59	5,150.52	4,995.89	154.64	33.307	
16,200.00	7,870.00	8,012.00	7,687.72	126.32	43.11	-88.25	-3,439.05	6,331.59	5,202.26	5,046.61	155.65	33.422	
16,300.00	7,870.00	8,012.00	7,687.72	127.99	43.11	-88.25	-3,439.05	6,331.59	5,255.40	5,098.78	156.62	33.555	
16,400.00	7,870.00	8,012.00	7,687.72	129.66	43.11	-88.25	-3,439.05	6,331.59	5,309.88	5,152.34	157.54	33.704	
16,500.00	7,870.00	8,012.00	7,687.72	131.33	43.11	-88.25	-3,439.05	6,331.59	5,365.68	5,207.26	158.42	33.870	
16,600.00	7,870.00	8,012.00	7,687.72	133.01	43.11	-88.25	-3,439.05	6,331.59	5,422.74	5,263.49	159.25	34.051	
16,700.00	7,870.00	8,012.00	7,687.72	134.69	43.11	-88.25	-3,439.05	6,331.59	5,481.04	5,321.00	160.05	34.247	
16,800.00	7,870.00	8,012.00	7,687.72	136.37	43.11	-88.25	-3,439.05	6,331.59	5,540.53	5,379.73	160.80	34.457	
16,900.00	7,870.00	8,012.00	7,687.72	138.06	43.11	-88.25	-3,439.05	6,331.59	5,601.17	5,439.66	161.51	34.681	
17,000.00	7,870.00	8,012.00	7,687.72	139.74	43.11	-88.25	-3,439.05	6,331.59	5,662.93	5,500.75	162.18	34.918	
17,100.00	7,870.00	8,012.00	7,687.72	141.43	43.11	-88.25	-3,439.05	6,331.59	5,725.77	5,562.95	162.82	35.167	
17,200.00	7,870.00	8,012.00	7,687.72	143.12	43.11	-88.25	-3,439.05	6,331.59	5,789.65	5,626.23	163.42	35.429	
17,300.00	7,870.00	8,012.00	7,687.72	144.81	43.11	-88.25	-3,439.05	6,331.59	5,854.55	5,690.56	163.99	35.701	
17,400.00	7,870.00	8,012.00	7,687.72	146.50	43.11	-88.25	-3,439.05	6,331.59	5,920.42	5,755.90	164.52	35.986	
17,500.00	7,870.00	8,012.00	7,687.72	148.19	43.11	-88.25	-3,439.05	6,331.59	5,987.24	5,822.21	165.03	36.280	
17,600.00	7,870.00	8,012.00	7,687.72	149.89	43.11	-88.25	-3,439.05	6,331.59	6,054.97	5,889.47	165.50	36.585	
17,700.00	7,870.00	8,012.00	7,687.72	151.59	43.11	-88.25	-3,439.05	6,331.59	6,123.59	5,957.63	165.95	36.900	
17,800.00	7,870.00	8,012.00	7,687.72	153.29	43.11	-88.25	-3,439.05	6,331.59	6,193.06	6,026.68	166.37	37.224	
17,900.00	7,870.00	8,012.00	7,687.72	154.99	43.11	-88.25	-3,439.05	6,331.59	6,263.36	6,096.58	166.77	37.557	
18,000.00	7,870.00	8,012.00	7,687.72	156.69	43.11	-88.25	-3,439.05	6,331.59	6,334.45	6,167.31	167.14	37.898	
18,100.00	7,870.00	8,012.00	7,687.72	158.39	43.11	-88.25	-3,439.05	6,331.59	6,406.32	6,238.83	167.49	38.248	
18,200.00	7,870.00	8,012.00	7,687.72	160.09	43.11	-88.25	-3,439.05	6,331.59	6,478.93	6,311.11	167.82	38.606	
18,300.00	7,870.00	8,012.00	7,687.72	161.80	43.11	-88.25	-3,439.05	6,331.59	6,552.27	6,384.14	168.13	38.972	
18,400.00	7,870.00	8,012.00	7,687.72	163.51	43.11	-88.25	-3,439.05	6,331.59	6,626.30	6,457.89	168.41	39.345	
18,455.45	7,870.00	8,012.00	7,687.72	164.45	43.11	-88.25	-3,439.05	6,331.59	6,667.64	6,499.08	168.56	39.555	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	81.98	771.44	5,475.00	5,529.82				
100.00	100.00	10.00	10.00	0.13	0.08	81.98	771.44	5,475.00	5,529.08	5,528.87	0.21	N/A	
200.00	200.00	110.00	110.00	0.49	0.95	81.98	771.44	5,475.00	5,529.08	5,527.64	1.44	3,828.729	
300.00	300.00	210.00	210.00	0.85	2.70	81.98	771.44	5,475.00	5,529.08	5,525.53	3.55	1,558.408	
400.00	400.00	310.00	310.00	1.21	4.44	81.98	771.44	5,475.00	5,529.08	5,523.43	5.65	978.303	
500.00	500.00	410.00	410.00	1.57	6.19	81.98	771.44	5,475.00	5,529.08	5,521.33	7.76	712.923	
600.00	600.00	510.00	510.00	1.93	7.93	81.98	771.44	5,475.00	5,529.08	5,519.22	9.86	560.798	
700.00	700.00	610.00	610.00	2.29	9.68	81.98	771.44	5,475.00	5,529.08	5,517.12	11.96	462.178	
800.00	800.00	710.00	710.00	2.64	11.42	81.98	771.44	5,475.00	5,529.08	5,515.02	14.07	393.056	
900.00	900.00	810.00	810.00	3.00	13.17	81.98	771.44	5,475.00	5,529.08	5,512.91	16.17	341.920	
1,000.00	1,000.00	910.00	910.00	3.36	14.91	81.98	771.44	5,475.00	5,529.08	5,510.81	18.27	302.557	
1,100.00	1,100.00	1,010.00	1,010.00	3.72	16.66	81.98	771.44	5,475.00	5,529.08	5,508.70	20.38	271.322	
1,200.00	1,200.00	1,110.00	1,110.00	4.08	18.40	81.98	771.44	5,475.00	5,529.08	5,506.60	22.48	245.933	
1,300.00	1,300.00	1,210.00	1,210.00	4.44	20.15	81.98	771.44	5,475.00	5,529.08	5,504.50	24.59	224.888	
1,400.00	1,399.98	1,309.98	1,309.98	4.79	21.89	39.07	771.44	5,475.00	5,527.73	5,501.04	26.69	207.135	
1,500.00	1,499.84	1,409.84	1,409.84	5.15	23.64	39.15	771.44	5,475.00	5,523.66	5,494.88	28.78	191.905	
1,600.00	1,599.45	1,509.45	1,509.45	5.51	25.38	39.29	771.44	5,475.00	5,516.90	5,486.02	30.88	178.674	
1,700.00	1,698.70	1,608.70	1,608.70	5.87	27.11	39.49	771.44	5,475.00	5,507.46	5,474.49	32.97	167.064	
1,800.00	1,797.47	1,707.47	1,707.47	6.24	28.83	39.75	771.44	5,475.00	5,495.35	5,460.29	35.05	156.782	
1,900.00	1,895.62	1,805.62	1,805.62	6.63	30.55	40.07	771.44	5,475.00	5,480.60	5,443.47	37.13	147.602	
2,000.00	1,993.06	1,903.06	1,903.06	7.04	32.25	40.45	771.44	5,475.00	5,463.25	5,424.04	39.21	139.345	
2,100.00	2,089.64	2,000.36	1,999.64	7.48	33.94	40.89	771.44	5,475.00	5,443.33	5,402.04	41.29	131.829	
2,200.00	2,185.27	2,104.73	2,095.27	7.94	35.77	41.39	771.44	5,475.00	5,420.89	5,377.38	43.51	124.583	
2,300.00	2,279.82	2,189.82	2,189.82	8.45	37.25	41.96	771.44	5,475.00	5,395.98	5,350.57	45.41	118.819	
2,400.00	2,373.17	2,283.17	2,283.17	8.99	38.88	42.59	771.44	5,475.00	5,368.66	5,321.18	47.48	113.074	
2,500.00	2,465.21	2,375.21	2,375.21	9.58	40.49	43.29	771.44	5,475.00	5,338.98	5,289.44	49.55	107.760	
2,574.08	2,532.50	2,442.50	2,442.50	10.04	41.66	43.85	771.44	5,475.00	5,315.52	5,264.44	51.08	104.069	
2,600.00	2,555.89	2,465.89	2,465.89	10.21	42.07	43.93	771.44	5,475.00	5,307.10	5,255.49	51.61	102.824	
2,700.00	2,646.16	2,556.16	2,556.16	10.88	43.64	44.24	771.44	5,475.00	5,274.71	5,221.02	53.69	98.240	
2,800.00	2,736.44	2,646.44	2,646.44	11.57	45.22	44.55	771.44	5,475.00	5,242.47	5,186.68	55.79	93.970	
2,900.00	2,826.71	2,736.71	2,736.71	12.27	46.80	44.86	771.44	5,475.00	5,210.39	5,152.49	57.90	89.986	
3,000.00	2,916.98	2,826.98	2,826.98	13.00	48.37	45.18	771.44	5,475.00	5,178.47	5,118.44	60.03	86.264	
3,100.00	3,007.25	2,917.25	2,917.25	13.73	49.95	45.51	771.44	5,475.00	5,146.71	5,084.54	62.17	82.781	
3,200.00	3,097.52	3,007.52	3,007.52	14.48	51.52	45.84	771.44	5,475.00	5,115.11	5,050.78	64.33	79.517	
3,300.00	3,187.80	3,102.20	3,097.80	15.23	53.17	46.17	771.44	5,475.00	5,083.68	5,017.11	66.57	76.365	
3,400.00	3,278.07	3,188.07	3,188.07	15.99	54.67	46.50	771.44	5,475.00	5,052.42	4,983.75	68.67	73.574	
3,500.00	3,368.34	3,278.34	3,278.34	16.76	56.25	46.84	771.44	5,475.00	5,021.34	4,950.48	70.86	70.864	
3,600.00	3,458.61	3,368.61	3,368.61	17.54	57.82	47.18	771.44	5,475.00	4,990.43	4,917.38	73.06	68.309	
3,700.00	3,548.89	3,458.89	3,458.89	18.32	59.40	47.53	771.44	5,475.00	4,959.71	4,884.44	75.26	65.897	
3,800.00	3,639.16	3,549.16	3,549.16	19.10	60.98	47.88	771.44	5,475.00	4,929.17	4,851.69	77.48	63.618	
3,900.00	3,729.43	3,639.43	3,639.43	19.89	62.55	48.23	771.44	5,475.00	4,898.81	4,819.11	79.71	61.461	
4,000.00	3,819.70	3,729.70	3,729.70	20.69	64.13	48.59	771.44	5,475.00	4,868.65	4,786.71	81.94	59.417	
4,100.00	3,909.98	3,819.98	3,819.98	21.48	65.70	48.95	771.44	5,475.00	4,838.68	4,754.50	84.18	57.479	
4,200.00	4,000.25	3,910.25	3,910.25	22.28	67.28	49.31	771.44	5,475.00	4,808.91	4,722.48	86.43	55.639	
4,300.00	4,090.52	4,000.52	4,000.52	23.08	68.85	49.68	771.44	5,475.00	4,779.34	4,690.65	88.69	53.889	
4,400.00	4,180.79	4,109.21	4,090.79	23.88	70.75	50.06	771.44	5,475.00	4,749.98	4,658.70	91.28	52.040	
4,500.00	4,271.06	4,181.06	4,181.06	24.69	72.00	50.43	771.44	5,475.00	4,720.82	4,627.60	93.23	50.638	
4,600.00	4,361.34	4,271.34	4,271.34	25.49	73.58	50.82	771.44	5,475.00	4,691.88	4,596.37	95.51	49.126	
4,700.00	4,451.61	4,361.61	4,361.61	26.30	75.16	51.20	771.44	5,475.00	4,663.16	4,565.36	97.79	47.684	
4,800.00	4,541.88	4,451.88	4,451.88	27.11	76.73	51.59	771.44	5,475.00	4,634.66	4,534.57	100.09	46.306	
4,900.00	4,632.15	4,542.15	4,542.15	27.92	78.31	51.99	771.44	5,475.00	4,606.38	4,503.99	102.39	44.989	
5,000.00	4,722.43	4,632.43	4,632.43	28.74	79.88	52.39	771.44	5,475.00	4,578.33	4,473.63	104.70	43.729	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,722.70	4,722.70	29.55	81.46	52.79	771.44	5,475.00	4,550.52	4,443.51	107.01	42.523	
5,200.00	4,902.97	4,812.97	4,812.97	30.37	83.03	53.20	771.44	5,475.00	4,522.94	4,413.61	109.34	41.367	
5,300.00	4,993.24	4,903.24	4,903.24	31.18	84.61	53.61	771.44	5,475.00	4,495.61	4,383.95	111.67	40.259	
5,400.00	5,083.51	5,006.49	4,993.51	32.00	86.41	54.02	771.44	5,475.00	4,468.53	4,354.30	114.23	39.119	
5,500.00	5,173.79	5,083.79	5,083.79	32.82	87.76	54.44	771.44	5,475.00	4,441.69	4,325.35	116.35	38.177	
5,600.00	5,264.06	5,174.06	5,174.06	33.63	89.34	54.87	771.44	5,475.00	4,415.12	4,296.42	118.70	37.197	
5,700.00	5,354.33	5,264.33	5,264.33	34.45	90.91	55.30	771.44	5,475.00	4,388.80	4,267.75	121.05	36.255	
5,800.00	5,444.60	5,354.60	5,354.60	35.27	92.49	55.73	771.44	5,475.00	4,362.75	4,239.33	123.42	35.350	
5,900.00	5,534.88	5,444.88	5,444.88	36.09	94.06	56.17	771.44	5,475.00	4,336.97	4,211.18	125.79	34.479	
6,000.00	5,625.15	5,535.15	5,535.15	36.91	95.64	56.62	771.44	5,475.00	4,311.46	4,183.30	128.16	33.641	
6,100.00	5,715.42	5,625.42	5,625.42	37.74	97.21	57.06	771.44	5,475.00	4,286.24	4,155.69	130.54	32.834	
6,200.00	5,805.69	5,715.69	5,715.69	38.56	98.79	57.52	771.44	5,475.00	4,261.29	4,128.36	132.93	32.056	
6,300.00	5,895.96	5,805.96	5,805.96	39.38	100.36	57.97	771.44	5,475.00	4,236.64	4,101.31	135.33	31.306	
6,400.00	5,986.24	5,903.76	5,896.24	40.20	102.07	58.43	771.44	5,475.00	4,212.29	4,074.43	137.86	30.554	
6,500.00	6,076.51	5,986.51	5,986.51	41.03	103.52	58.90	771.44	5,475.00	4,188.23	4,048.09	140.14	29.886	
6,600.00	6,166.78	6,076.78	6,076.78	41.85	105.09	59.37	771.44	5,475.00	4,164.48	4,021.93	142.55	29.213	
6,700.00	6,257.05	6,167.05	6,167.05	42.67	106.67	59.85	771.44	5,475.00	4,141.04	3,996.07	144.98	28.564	
6,800.00	6,347.33	6,257.33	6,257.33	43.50	108.24	60.33	771.44	5,475.00	4,117.92	3,970.52	147.40	27.937	
6,900.00	6,437.60	6,347.60	6,347.60	44.32	109.82	60.81	771.44	5,475.00	4,095.12	3,945.29	149.84	27.331	
7,000.00	6,527.87	6,437.87	6,437.87	45.15	111.39	61.30	771.44	5,475.00	4,072.65	3,920.37	152.27	26.746	
7,100.00	6,618.14	6,528.14	6,528.14	45.98	112.97	61.79	771.44	5,475.00	4,050.50	3,895.79	154.72	26.180	
7,200.00	6,708.41	6,618.41	6,618.41	46.80	114.54	62.29	771.44	5,475.00	4,028.70	3,871.53	157.17	25.633	
7,300.00	6,798.69	6,708.69	6,708.69	47.63	116.12	62.80	771.44	5,475.00	4,007.24	3,847.62	159.62	25.104	
7,400.00	6,888.96	6,801.04	6,798.96	48.45	117.73	63.30	771.44	5,475.00	3,986.13	3,824.01	162.12	24.587	
7,500.00	6,979.23	6,889.23	6,889.23	49.28	119.27	63.82	771.44	5,475.00	3,965.37	3,800.82	164.55	24.098	
7,600.00	7,069.50	6,979.50	6,979.50	50.11	120.85	64.33	771.44	5,475.00	3,944.97	3,777.95	167.02	23.620	
7,692.09	7,152.63	7,062.63	7,062.63	50.87	122.30	64.81	771.44	5,475.00	3,926.51	3,757.21	169.30	23.192	
7,700.00	7,159.79	7,069.79	7,069.79	50.93	122.42	63.49	771.44	5,475.00	3,924.92	3,755.42	169.50	23.156	
7,750.00	7,205.70	7,115.70	7,115.70	51.32	123.22	53.61	771.44	5,475.00	3,914.06	3,743.36	170.70	22.929	
7,800.00	7,252.52	7,162.52	7,162.52	51.66	124.04	40.86	771.44	5,475.00	3,901.84	3,729.98	171.86	22.704	
7,850.00	7,299.89	7,209.89	7,209.89	51.96	124.87	25.41	771.44	5,475.00	3,888.31	3,715.36	172.95	22.483	
7,900.00	7,347.44	7,257.44	7,257.44	52.20	125.70	8.64	771.44	5,475.00	3,873.54	3,699.58	173.96	22.267	
7,950.00	7,394.83	7,304.83	7,304.83	52.39	126.52	-7.33	771.44	5,475.00	3,857.63	3,682.74	174.89	22.057	
8,000.00	7,441.68	7,351.68	7,351.68	52.53	127.34	-21.02	771.44	5,475.00	3,840.71	3,664.97	175.74	21.854	
8,050.00	7,487.65	7,402.35	7,397.65	52.62	128.23	-32.20	771.44	5,475.00	3,822.91	3,646.32	176.59	21.649	
8,100.00	7,532.37	7,442.37	7,442.37	52.67	128.93	-41.30	771.44	5,475.00	3,804.40	3,627.23	177.18	21.472	
8,150.00	7,575.52	7,485.52	7,485.52	52.67	129.68	-48.82	771.44	5,475.00	3,785.37	3,607.61	177.76	21.295	
8,200.00	7,616.76	7,526.76	7,526.76	52.63	130.40	-55.21	771.44	5,475.00	3,766.00	3,587.76	178.24	21.129	
8,250.00	7,655.77	7,565.77	7,565.77	52.55	131.08	-60.75	771.44	5,475.00	3,746.51	3,567.89	178.62	20.975	
8,300.00	7,692.27	7,602.27	7,602.27	52.44	131.72	-65.63	771.44	5,475.00	3,727.12	3,548.21	178.90	20.833	
8,350.00	7,725.97	7,635.97	7,635.97	52.29	132.30	-69.99	771.44	5,475.00	3,708.06	3,528.97	179.09	20.705	
8,400.00	7,756.62	7,666.62	7,666.62	52.12	132.84	-73.87	771.44	5,475.00	3,689.56	3,510.39	179.17	20.592	
8,450.00	7,783.98	7,706.02	7,693.98	51.92	133.53	-77.32	771.44	5,475.00	3,671.85	3,492.48	179.37	20.471	
8,500.00	7,807.85	7,717.85	7,717.85	51.70	133.73	-80.36	771.44	5,475.00	3,655.16	3,476.11	179.05	20.414	
8,550.00	7,828.05	7,738.05	7,738.05	51.45	134.09	-83.00	771.44	5,475.00	3,639.69	3,460.83	178.85	20.350	
8,600.00	7,844.41	7,754.41	7,754.41	51.20	134.37	-85.25	771.44	5,475.00	3,625.64	3,447.07	178.57	20.304	
8,650.00	7,856.82	7,766.82	7,766.82	50.93	134.59	-87.09	771.44	5,475.00	3,613.19	3,434.98	178.21	20.275	
8,700.00	7,865.18	7,775.18	7,775.18	50.65	134.73	-88.55	771.44	5,475.00	3,602.50	3,424.72	177.77	20.265	SF
8,750.00	7,869.43	7,779.43	7,779.43	50.36	134.81	-89.60	771.44	5,475.00	3,593.68	3,416.41	177.27	20.273	
8,776.25	7,870.00	7,780.00	7,780.00	50.21	134.82	-90.00	771.44	5,475.00	3,589.83	3,412.86	176.98	20.284	
8,800.00	7,870.00	7,780.00	7,780.00	50.08	134.82	-90.00	771.44	5,475.00	3,586.68	3,409.97	176.71	20.297	
8,900.00	7,870.00	7,780.00	7,780.00	49.53	134.82	-90.00	771.44	5,475.00	3,575.12	3,399.47	175.65	20.354	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,780.00	7,780.00	49.01	134.82	-90.00	771.44	5,475.00	3,566.32	3,391.63	174.69	20.416	
9,100.00	7,870.00	7,780.00	7,780.00	48.52	134.82	-90.00	771.44	5,475.00	3,560.31	3,386.46	173.84	20.480	
9,200.00	7,870.00	7,780.00	7,780.00	48.06	134.82	-90.00	771.44	5,475.00	3,557.10	3,383.97	173.13	20.546	
9,264.19	7,870.00	7,780.00	7,780.00	47.78	134.82	-90.00	771.44	5,475.00	3,556.52	3,383.76	172.76	20.587	CC, ES
9,300.00	7,870.00	7,780.00	7,780.00	47.63	134.82	-90.00	771.44	5,475.00	3,556.70	3,384.14	172.56	20.611	
9,400.00	7,870.00	7,780.00	7,780.00	47.22	134.82	-90.00	771.44	5,475.00	3,559.11	3,386.97	172.14	20.676	
9,500.00	7,870.00	7,780.00	7,780.00	46.83	134.82	-90.00	771.44	5,475.00	3,564.33	3,392.45	171.88	20.737	
9,600.00	7,870.00	7,780.00	7,780.00	46.48	134.82	-90.00	771.44	5,475.00	3,572.34	3,400.56	171.78	20.796	
9,700.00	7,870.00	7,780.00	7,780.00	46.14	134.82	-90.00	771.44	5,475.00	3,583.12	3,411.28	171.84	20.851	
9,800.00	7,870.00	7,780.00	7,780.00	45.83	134.82	-90.00	771.44	5,475.00	3,596.65	3,424.59	172.06	20.903	
9,900.00	7,870.00	7,780.00	7,780.00	45.54	134.82	-90.00	771.44	5,475.00	3,612.90	3,440.48	172.43	20.953	
10,000.00	7,870.00	7,780.00	7,780.00	45.27	134.82	-90.00	771.44	5,475.00	3,631.84	3,458.90	172.94	21.001	
10,100.00	7,870.00	7,780.00	7,780.00	45.03	134.82	-90.00	771.44	5,475.00	3,653.41	3,479.84	173.57	21.048	
10,200.00	7,870.00	7,780.00	7,780.00	44.82	134.82	-90.00	771.44	5,475.00	3,677.58	3,503.25	174.32	21.096	
10,300.00	7,870.00	7,780.00	7,780.00	44.66	134.82	-90.00	771.44	5,475.00	3,704.28	3,529.11	175.17	21.146	
10,400.00	7,870.00	7,780.00	7,780.00	44.56	134.82	-90.00	771.44	5,475.00	3,733.48	3,557.37	176.11	21.200	
10,500.00	7,870.00	7,780.00	7,780.00	44.58	134.82	-90.00	771.44	5,475.00	3,765.11	3,587.99	177.12	21.258	
10,600.00	7,870.00	7,780.00	7,780.00	44.82	134.82	-90.00	771.44	5,475.00	3,799.11	3,620.92	178.18	21.321	
10,700.00	7,870.00	7,780.00	7,780.00	45.36	134.82	-90.00	771.44	5,475.00	3,835.41	3,656.12	179.29	21.392	
10,800.00	7,870.00	7,780.00	7,780.00	46.15	134.82	-90.00	771.44	5,475.00	3,873.96	3,693.52	180.44	21.470	
10,900.00	7,870.00	7,780.00	7,780.00	47.09	134.82	-90.00	771.44	5,475.00	3,914.68	3,733.07	181.61	21.556	
11,000.00	7,870.00	7,780.00	7,780.00	48.13	134.82	-90.00	771.44	5,475.00	3,957.51	3,774.71	182.79	21.650	
11,100.00	7,870.00	7,780.00	7,780.00	49.22	134.82	-90.00	771.44	5,475.00	4,002.38	3,818.39	183.98	21.754	
11,200.00	7,870.00	7,780.00	7,780.00	50.37	134.82	-90.00	771.44	5,475.00	4,049.22	3,864.04	185.18	21.867	
11,300.00	7,870.00	7,780.00	7,780.00	51.55	134.82	-90.00	771.44	5,475.00	4,097.97	3,911.61	186.36	21.989	
11,400.00	7,870.00	7,780.00	7,780.00	52.76	134.82	-90.00	771.44	5,475.00	4,148.55	3,961.02	187.54	22.121	
11,500.00	7,870.00	7,780.00	7,780.00	54.00	134.82	-90.00	771.44	5,475.00	4,200.91	4,012.22	188.70	22.263	
11,600.00	7,870.00	7,780.00	7,780.00	55.27	134.82	-90.00	771.44	5,475.00	4,254.98	4,065.14	189.84	22.414	
11,700.00	7,870.00	7,780.00	7,780.00	56.56	134.82	-90.00	771.44	5,475.00	4,310.68	4,119.73	190.96	22.574	
11,800.00	7,870.00	7,780.00	7,780.00	57.88	134.82	-90.00	771.44	5,475.00	4,367.97	4,175.92	192.05	22.744	
11,900.00	7,870.00	7,780.00	7,780.00	59.21	134.82	-90.00	771.44	5,475.00	4,426.77	4,233.65	193.12	22.922	
12,000.00	7,870.00	7,780.00	7,780.00	60.57	134.82	-90.00	771.44	5,475.00	4,487.03	4,292.87	194.17	23.109	
12,100.00	7,870.00	7,780.00	7,780.00	61.94	134.82	-90.00	771.44	5,475.00	4,548.70	4,353.51	195.18	23.305	
12,200.00	7,870.00	7,780.00	7,780.00	63.33	134.82	-90.00	771.44	5,475.00	4,611.70	4,415.53	196.17	23.509	
12,300.00	7,870.00	7,780.00	7,780.00	64.74	134.82	-90.00	771.44	5,475.00	4,676.00	4,478.87	197.13	23.720	
12,400.00	7,870.00	7,780.00	7,780.00	66.16	134.82	-90.00	771.44	5,475.00	4,741.53	4,543.47	198.06	23.940	
12,500.00	7,870.00	7,780.00	7,780.00	67.59	134.82	-90.00	771.44	5,475.00	4,808.25	4,609.29	198.96	24.167	
12,600.00	7,870.00	7,780.00	7,780.00	69.04	134.82	-90.00	771.44	5,475.00	4,876.11	4,676.27	199.84	24.400	
12,700.00	7,870.00	7,780.00	7,780.00	70.51	134.82	-90.00	771.44	5,475.00	4,945.06	4,744.38	200.68	24.641	
12,800.00	7,870.00	7,780.00	7,780.00	71.98	134.82	-90.00	771.44	5,475.00	5,015.05	4,813.55	201.50	24.889	
12,900.00	7,870.00	7,780.00	7,780.00	73.47	134.82	-90.00	771.44	5,475.00	5,086.05	4,883.76	202.29	25.142	
13,000.00	7,870.00	7,780.00	7,780.00	74.96	134.82	-90.00	771.44	5,475.00	5,158.01	4,954.95	203.06	25.402	
13,100.00	7,870.00	7,780.00	7,780.00	76.47	134.82	-90.00	771.44	5,475.00	5,230.89	5,027.10	203.80	25.667	
13,200.00	7,870.00	7,780.00	7,780.00	77.99	134.82	-90.00	771.44	5,475.00	5,304.66	5,100.15	204.51	25.939	
13,300.00	7,870.00	7,780.00	7,780.00	79.51	134.82	-90.00	771.44	5,475.00	5,379.27	5,174.07	205.20	26.215	
13,400.00	7,870.00	7,780.00	7,780.00	81.05	134.82	-90.00	771.44	5,475.00	5,454.70	5,248.83	205.86	26.497	
13,500.00	7,870.00	7,780.00	7,780.00	82.59	134.82	-90.00	771.44	5,475.00	5,530.90	5,324.40	206.51	26.783	
13,600.00	7,870.00	7,780.00	7,780.00	84.14	134.82	-90.00	771.44	5,475.00	5,607.86	5,400.73	207.13	27.074	
13,700.00	7,870.00	7,780.00	7,780.00	85.70	134.82	-90.00	771.44	5,475.00	5,685.53	5,477.80	207.73	27.370	
13,800.00	7,870.00	7,780.00	7,780.00	87.26	134.82	-90.00	771.44	5,475.00	5,763.89	5,555.58	208.31	27.670	
13,900.00	7,870.00	7,780.00	7,780.00	88.83	134.82	-90.00	771.44	5,475.00	5,842.90	5,634.04	208.87	27.974	
14,000.00	7,870.00	7,780.00	7,780.00	90.41	134.82	-90.00	771.44	5,475.00	5,922.56	5,713.15	209.41	28.283	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,780.00	7,780.00	92.00	134.82	-90.00	771.44	5,475.00	6,002.82	5,792.89	209.93	28.595	
14,200.00	7,870.00	7,780.00	7,780.00	93.59	134.82	-90.00	771.44	5,475.00	6,083.67	5,873.24	210.43	28.910	
14,300.00	7,870.00	7,780.00	7,780.00	95.18	134.82	-90.00	771.44	5,475.00	6,165.08	5,954.16	210.92	29.229	
14,400.00	7,870.00	7,780.00	7,780.00	96.79	134.82	-90.00	771.44	5,475.00	6,247.03	6,035.64	211.39	29.552	
14,500.00	7,870.00	7,780.00	7,780.00	98.39	134.82	-90.00	771.44	5,475.00	6,329.49	6,117.65	211.85	29.878	
14,600.00	7,870.00	7,780.00	7,780.00	100.00	134.82	-90.00	771.44	5,475.00	6,412.46	6,200.17	212.29	30.206	
14,700.00	7,870.00	7,780.00	7,780.00	101.62	134.82	-90.00	771.44	5,475.00	6,495.91	6,283.19	212.71	30.538	
14,800.00	7,870.00	7,780.00	7,780.00	103.24	134.82	-90.00	771.44	5,475.00	6,579.82	6,366.69	213.13	30.873	
14,900.00	7,870.00	7,780.00	7,780.00	104.87	134.82	-90.00	771.44	5,475.00	6,664.17	6,450.64	213.53	31.210	
15,000.00	7,870.00	7,780.00	7,780.00	106.50	134.82	-90.00	771.44	5,475.00	6,748.95	6,535.04	213.91	31.550	
15,100.00	7,870.00	7,780.00	7,780.00	108.13	134.82	-90.00	771.44	5,475.00	6,834.14	6,619.85	214.29	31.893	
15,200.00	7,870.00	7,780.00	7,780.00	109.77	134.82	-90.00	771.44	5,475.00	6,919.73	6,705.08	214.65	32.237	
15,300.00	7,870.00	7,780.00	7,780.00	111.41	134.82	-90.00	771.44	5,475.00	7,005.70	6,790.70	215.00	32.585	
15,400.00	7,870.00	7,780.00	7,780.00	113.05	134.82	-90.00	771.44	5,475.00	7,092.03	6,876.69	215.34	32.934	
15,500.00	7,870.00	7,780.00	7,780.00	114.70	134.82	-90.00	771.44	5,475.00	7,178.73	6,963.06	215.67	33.286	
15,600.00	7,870.00	7,780.00	7,780.00	116.35	134.82	-90.00	771.44	5,475.00	7,265.76	7,049.77	215.99	33.639	
15,700.00	7,870.00	7,780.00	7,780.00	118.00	134.82	-90.00	771.44	5,475.00	7,353.12	7,136.82	216.30	33.995	
15,800.00	7,870.00	7,780.00	7,780.00	119.66	134.82	-90.00	771.44	5,475.00	7,440.81	7,224.20	216.60	34.352	
15,900.00	7,870.00	7,780.00	7,780.00	121.32	134.82	-90.00	771.44	5,475.00	7,528.80	7,311.90	216.90	34.711	
16,000.00	7,870.00	7,780.00	7,780.00	122.98	134.82	-90.00	771.44	5,475.00	7,617.08	7,399.90	217.18	35.072	
16,100.00	7,870.00	7,780.00	7,780.00	124.65	134.82	-90.00	771.44	5,475.00	7,705.65	7,488.19	217.46	35.435	
16,200.00	7,870.00	7,780.00	7,780.00	126.32	134.82	-90.00	771.44	5,475.00	7,794.50	7,576.77	217.73	35.799	
16,300.00	7,870.00	7,780.00	7,780.00	127.99	134.82	-90.00	771.44	5,475.00	7,883.62	7,665.63	217.99	36.165	
16,400.00	7,870.00	7,780.00	7,780.00	129.66	134.82	-90.00	771.44	5,475.00	7,972.99	7,754.75	218.24	36.533	
16,500.00	7,870.00	7,780.00	7,780.00	131.33	134.82	-90.00	771.44	5,475.00	8,062.61	7,844.12	218.49	36.902	
16,600.00	7,870.00	7,780.00	7,780.00	133.01	134.82	-90.00	771.44	5,475.00	8,152.48	7,933.75	218.73	37.272	
16,700.00	7,870.00	7,780.00	7,780.00	134.69	134.82	-90.00	771.44	5,475.00	8,242.58	8,023.61	218.96	37.643	
16,800.00	7,870.00	7,780.00	7,780.00	136.37	134.82	-90.00	771.44	5,475.00	8,332.90	8,113.71	219.19	38.016	
16,900.00	7,870.00	7,780.00	7,780.00	138.06	134.82	-90.00	771.44	5,475.00	8,423.44	8,204.03	219.42	38.390	
17,000.00	7,870.00	7,780.00	7,780.00	139.74	134.82	-90.00	771.44	5,475.00	8,514.20	8,294.56	219.63	38.766	
17,100.00	7,870.00	7,780.00	7,780.00	141.43	134.82	-90.00	771.44	5,475.00	8,605.16	8,385.31	219.84	39.142	
17,200.00	7,870.00	7,780.00	7,780.00	143.12	134.82	-90.00	771.44	5,475.00	8,696.31	8,476.26	220.05	39.520	
17,300.00	7,870.00	7,780.00	7,780.00	144.81	134.82	-90.00	771.44	5,475.00	8,787.66	8,567.41	220.25	39.898	
17,400.00	7,870.00	7,780.00	7,780.00	146.50	134.82	-90.00	771.44	5,475.00	8,879.20	8,658.75	220.45	40.278	
17,500.00	7,870.00	7,780.00	7,780.00	148.19	134.82	-90.00	771.44	5,475.00	8,970.92	8,750.28	220.64	40.659	
17,600.00	7,870.00	7,780.00	7,780.00	149.89	134.82	-90.00	771.44	5,475.00	9,062.81	8,841.98	220.83	41.040	
17,700.00	7,870.00	7,780.00	7,780.00	151.59	134.82	-90.00	771.44	5,475.00	9,154.87	8,933.86	221.01	41.423	
17,800.00	7,870.00	7,780.00	7,780.00	153.29	134.82	-90.00	771.44	5,475.00	9,247.10	9,025.91	221.19	41.806	
17,900.00	7,870.00	7,780.00	7,780.00	154.99	134.82	-90.00	771.44	5,475.00	9,339.49	9,118.12	221.37	42.190	
18,000.00	7,870.00	7,780.00	7,780.00	156.69	134.82	-90.00	771.44	5,475.00	9,432.03	9,210.49	221.54	42.575	
18,100.00	7,870.00	7,780.00	7,780.00	158.39	134.82	-90.00	771.44	5,475.00	9,524.72	9,303.02	221.70	42.961	
18,200.00	7,870.00	7,780.00	7,780.00	160.09	134.82	-90.00	771.44	5,475.00	9,617.56	9,395.69	221.87	43.348	
18,300.00	7,870.00	7,780.00	7,780.00	161.80	134.82	-90.00	771.44	5,475.00	9,710.54	9,488.51	222.03	43.735	
18,400.00	7,870.00	7,780.00	7,780.00	163.51	134.82	-90.00	771.44	5,475.00	9,803.66	9,581.48	222.19	44.123	
18,455.45	7,870.00	7,780.00	7,780.00	164.45	134.82	-90.00	771.44	5,475.00	9,855.36	9,633.08	222.27	44.339	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	115.44	-1,439.48	3,026.72	3,352.11				
100.00	100.00	41.00	41.00	0.13	0.31	115.44	-1,439.48	3,026.72	3,351.59	3,351.14	0.45	7,459.839	
200.00	200.00	141.00	141.00	0.49	1.48	115.44	-1,439.48	3,026.72	3,351.59	3,349.62	1.98	1,695.781	
300.00	300.00	241.00	241.00	0.85	3.23	115.44	-1,439.48	3,026.72	3,351.59	3,347.51	4.08	821.422	
400.00	400.00	341.00	341.00	1.21	4.97	115.44	-1,439.48	3,026.72	3,351.59	3,345.41	6.18	541.975	
500.00	500.00	441.00	441.00	1.57	6.72	115.44	-1,439.48	3,026.72	3,351.59	3,343.30	8.29	404.399	
600.00	600.00	541.00	541.00	1.93	8.46	115.44	-1,439.48	3,026.72	3,351.59	3,341.20	10.39	322.528	
700.00	700.00	641.00	641.00	2.29	10.21	115.44	-1,439.48	3,026.72	3,351.59	3,339.10	12.50	268.225	
800.00	800.00	741.00	741.00	2.64	11.96	115.44	-1,439.48	3,026.72	3,351.59	3,336.99	14.60	229.573	
900.00	900.00	841.00	841.00	3.00	13.70	115.44	-1,439.48	3,026.72	3,351.59	3,334.89	16.70	200.658	
1,000.00	1,000.00	941.00	941.00	3.36	15.45	115.44	-1,439.48	3,026.72	3,351.59	3,332.79	18.81	178.211	
1,100.00	1,100.00	1,041.00	1,041.00	3.72	17.19	115.44	-1,439.48	3,026.72	3,351.59	3,330.68	20.91	160.282	
1,200.00	1,200.00	1,141.00	1,141.00	4.08	18.94	115.44	-1,439.48	3,026.72	3,351.59	3,328.58	23.01	145.630	
1,300.00	1,300.00	1,241.00	1,241.00	4.44	20.68	115.44	-1,439.48	3,026.72	3,351.59	3,326.47	25.12	133.433	
1,400.00	1,399.98	1,340.98	1,340.98	4.79	22.43	72.53	-1,439.48	3,026.72	3,351.07	3,323.85	27.22	123.115	
1,500.00	1,499.84	1,440.84	1,440.84	5.15	24.17	72.65	-1,439.48	3,026.72	3,349.50	3,320.18	29.32	114.256	
1,600.00	1,599.45	1,540.45	1,540.45	5.51	25.91	72.84	-1,439.48	3,026.72	3,346.90	3,315.49	31.41	106.553	
1,700.00	1,698.70	1,639.70	1,639.70	5.87	27.64	73.10	-1,439.48	3,026.72	3,343.31	3,309.81	33.50	99.786	
1,800.00	1,797.47	1,738.47	1,738.47	6.24	29.36	73.45	-1,439.48	3,026.72	3,338.76	3,303.16	35.60	93.785	
1,900.00	1,895.62	1,836.62	1,836.62	6.63	31.08	73.86	-1,439.48	3,026.72	3,333.29	3,295.60	37.70	88.420	
2,000.00	1,993.06	1,934.06	1,934.06	7.04	32.78	74.34	-1,439.48	3,026.72	3,326.98	3,287.18	39.80	83.586	
2,100.00	2,089.64	2,030.64	2,030.64	7.48	34.46	74.90	-1,439.48	3,026.72	3,319.89	3,277.98	41.92	79.201	
2,200.00	2,185.27	2,126.27	2,126.27	7.94	36.13	75.52	-1,439.48	3,026.72	3,312.11	3,268.07	44.04	75.200	
2,300.00	2,279.82	2,220.82	2,220.82	8.45	37.78	76.20	-1,439.48	3,026.72	3,303.73	3,257.54	46.19	71.530	
2,400.00	2,373.17	2,314.17	2,314.17	8.99	39.41	76.94	-1,439.48	3,026.72	3,294.85	3,246.50	48.35	68.148	
2,500.00	2,465.21	2,406.21	2,406.21	9.58	41.02	77.74	-1,439.48	3,026.72	3,285.58	3,235.05	50.53	65.019	
2,574.08	2,532.50	2,473.50	2,473.50	10.04	42.19	78.36	-1,439.48	3,026.72	3,278.55	3,226.38	52.17	62.848	
2,600.00	2,555.89	2,503.11	2,496.89	10.21	42.71	78.53	-1,439.48	3,026.72	3,276.08	3,223.23	52.85	61.989	
2,700.00	2,646.16	2,587.16	2,587.16	10.88	44.18	79.20	-1,439.48	3,026.72	3,266.92	3,211.94	54.98	59.423	
2,800.00	2,736.44	2,677.44	2,677.44	11.57	45.75	79.87	-1,439.48	3,026.72	3,258.29	3,201.06	57.24	56.926	
2,900.00	2,826.71	2,767.71	2,767.71	12.27	47.33	80.55	-1,439.48	3,026.72	3,250.22	3,190.70	59.52	54.609	
3,000.00	2,916.98	2,857.98	2,857.98	13.00	48.90	81.23	-1,439.48	3,026.72	3,242.69	3,180.88	61.82	52.457	
3,100.00	3,007.25	2,948.25	2,948.25	13.73	50.48	81.91	-1,439.48	3,026.72	3,235.72	3,171.59	64.13	50.457	
3,200.00	3,097.52	3,038.52	3,038.52	14.48	52.05	82.59	-1,439.48	3,026.72	3,229.31	3,162.85	66.45	48.595	
3,300.00	3,187.80	3,128.80	3,128.80	15.23	53.63	83.28	-1,439.48	3,026.72	3,223.46	3,154.67	68.79	46.859	
3,400.00	3,278.07	3,219.07	3,219.07	15.99	55.21	83.97	-1,439.48	3,026.72	3,218.17	3,147.04	71.14	45.240	
3,500.00	3,368.34	3,309.34	3,309.34	16.76	56.78	84.66	-1,439.48	3,026.72	3,213.45	3,139.96	73.49	43.728	
3,600.00	3,458.61	3,400.39	3,399.61	17.54	58.37	85.35	-1,439.48	3,026.72	3,209.30	3,133.44	75.86	42.305	
3,700.00	3,548.89	3,489.89	3,489.89	18.32	59.93	86.04	-1,439.48	3,026.72	3,205.72	3,127.51	78.21	40.988	
3,800.00	3,639.16	3,580.16	3,580.16	19.10	61.51	86.73	-1,439.48	3,026.72	3,202.72	3,122.14	80.58	39.746	
3,900.00	3,729.43	3,670.43	3,670.43	19.89	63.08	87.43	-1,439.48	3,026.72	3,200.29	3,117.34	82.95	38.579	
4,000.00	3,819.70	3,760.70	3,760.70	20.69	64.66	88.12	-1,439.48	3,026.72	3,198.44	3,113.11	85.33	37.484	
4,100.00	3,909.98	3,850.98	3,850.98	21.48	66.23	88.82	-1,439.48	3,026.72	3,197.17	3,109.46	87.71	36.453	
4,200.00	4,000.25	3,941.25	3,941.25	22.28	67.81	89.51	-1,439.48	3,026.72	3,196.47	3,106.39	90.08	35.483	
4,269.95	4,063.39	4,004.39	4,004.39	22.84	68.91	90.00	-1,439.48	3,026.72	3,196.33	3,104.58	91.75	34.838	
4,300.00	4,090.52	4,031.52	4,031.52	23.08	69.39	90.21	-1,439.48	3,026.72	3,196.36	3,103.89	92.46	34.569	
4,400.00	4,180.79	4,121.79	4,121.79	23.88	70.96	90.91	-1,439.48	3,026.72	3,196.82	3,101.98	94.84	33.706	
4,500.00	4,271.06	4,212.06	4,212.06	24.69	72.54	91.60	-1,439.48	3,026.72	3,197.86	3,100.64	97.22	32.892	
4,600.00	4,361.34	4,302.34	4,302.34	25.49	74.11	92.30	-1,439.48	3,026.72	3,199.49	3,099.88	99.60	32.123	
4,700.00	4,451.61	4,407.39	4,392.61	26.30	75.95	92.99	-1,439.48	3,026.72	3,201.68	3,099.45	102.24	31.317	
4,800.00	4,541.88	4,482.88	4,482.88	27.11	77.26	93.69	-1,439.48	3,026.72	3,204.46	3,100.11	104.35	30.708	
4,900.00	4,632.15	4,573.15	4,573.15	27.92	78.84	94.38	-1,439.48	3,026.72	3,207.81	3,101.08	106.72	30.057	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,663.43	4,663.43	28.74	80.41	95.07	-1,439.48	3,026.72	3,211.73	3,102.63	109.09	29.440	
5,100.00	4,812.70	4,753.70	4,753.70	29.55	81.99	95.76	-1,439.48	3,026.72	3,216.22	3,104.76	111.46	28.855	
5,200.00	4,902.97	4,843.97	4,843.97	30.37	83.57	96.45	-1,439.48	3,026.72	3,221.28	3,107.46	113.82	28.301	
5,300.00	4,993.24	4,934.24	4,934.24	31.18	85.14	97.13	-1,439.48	3,026.72	3,226.91	3,110.72	116.18	27.775	
5,400.00	5,083.51	5,024.51	5,024.51	32.00	86.72	97.82	-1,439.48	3,026.72	3,233.10	3,114.56	118.54	27.275	
5,500.00	5,173.79	5,114.79	5,114.79	32.82	88.29	98.50	-1,439.48	3,026.72	3,239.84	3,118.96	120.89	26.801	
5,600.00	5,264.06	5,205.06	5,205.06	33.63	89.87	99.18	-1,439.48	3,026.72	3,247.15	3,123.92	123.23	26.350	
5,700.00	5,354.33	5,304.67	5,295.33	34.45	91.61	99.86	-1,439.48	3,026.72	3,255.01	3,129.27	125.74	25.888	
5,800.00	5,444.60	5,385.60	5,385.60	35.27	93.02	100.53	-1,439.48	3,026.72	3,263.41	3,135.50	127.91	25.514	
5,900.00	5,534.88	5,475.88	5,475.88	36.09	94.59	101.20	-1,439.48	3,026.72	3,272.36	3,142.12	130.24	25.126	
6,000.00	5,625.15	5,566.15	5,566.15	36.91	96.17	101.87	-1,439.48	3,026.72	3,281.85	3,149.29	132.56	24.758	
6,100.00	5,715.42	5,656.42	5,656.42	37.74	97.75	102.54	-1,439.48	3,026.72	3,291.87	3,157.00	134.88	24.406	
6,200.00	5,805.69	5,746.69	5,746.69	38.56	99.32	103.20	-1,439.48	3,026.72	3,302.43	3,165.24	137.19	24.072	
6,300.00	5,895.96	5,836.96	5,836.96	39.38	100.90	103.86	-1,439.48	3,026.72	3,313.51	3,174.01	139.49	23.754	
6,400.00	5,986.24	5,927.24	5,927.24	40.20	102.47	104.51	-1,439.48	3,026.72	3,325.11	3,183.31	141.79	23.451	
6,500.00	6,076.51	6,017.51	6,017.51	41.03	104.05	105.16	-1,439.48	3,026.72	3,337.22	3,193.14	144.08	23.162	
6,600.00	6,166.78	6,107.78	6,107.78	41.85	105.62	105.81	-1,439.48	3,026.72	3,349.84	3,203.47	146.37	22.886	
6,700.00	6,257.05	6,201.95	6,198.05	42.67	107.27	106.45	-1,439.48	3,026.72	3,362.97	3,214.25	148.71	22.614	
6,800.00	6,347.33	6,288.33	6,288.33	43.50	108.77	107.09	-1,439.48	3,026.72	3,376.59	3,225.67	150.92	22.374	
6,900.00	6,437.60	6,378.60	6,378.60	44.32	110.35	107.72	-1,439.48	3,026.72	3,390.70	3,237.52	153.18	22.135	
7,000.00	6,527.87	6,468.87	6,468.87	45.15	111.93	108.35	-1,439.48	3,026.72	3,405.30	3,249.86	155.44	21.908	
7,100.00	6,618.14	6,559.14	6,559.14	45.98	113.50	108.98	-1,439.48	3,026.72	3,420.38	3,262.69	157.69	21.691	
7,200.00	6,708.41	6,649.41	6,649.41	46.80	115.08	109.60	-1,439.48	3,026.72	3,435.93	3,276.00	159.93	21.484	
7,300.00	6,798.69	6,739.69	6,739.69	47.63	116.65	110.21	-1,439.48	3,026.72	3,451.94	3,289.78	162.17	21.286	
7,400.00	6,888.96	6,829.96	6,829.96	48.45	118.23	110.82	-1,439.48	3,026.72	3,468.42	3,304.02	164.40	21.098	
7,500.00	6,979.23	6,920.23	6,920.23	49.28	119.80	111.43	-1,439.48	3,026.72	3,485.35	3,318.73	166.62	20.918	
7,600.00	7,069.50	7,010.50	7,010.50	50.11	121.38	112.03	-1,439.48	3,026.72	3,502.72	3,333.89	168.83	20.747	
7,692.09	7,152.63	7,106.37	7,093.63	50.87	123.05	112.58	-1,439.48	3,026.72	3,519.11	3,348.03	171.09	20.569	
7,700.00	7,159.79	7,100.79	7,100.79	50.93	122.95	111.46	-1,439.48	3,026.72	3,520.49	3,349.45	171.04	20.583	
7,750.00	7,205.70	7,146.70	7,146.70	51.32	123.76	102.92	-1,439.48	3,026.72	3,526.92	3,354.77	172.15	20.488	
7,800.00	7,252.52	7,206.48	7,193.52	51.66	124.80	91.53	-1,439.48	3,026.72	3,529.38	3,355.91	173.47	20.345	
7,850.00	7,299.89	7,240.89	7,240.89	51.96	125.40	77.48	-1,439.48	3,026.72	3,527.85	3,353.52	174.34	20.236	
7,900.00	7,347.44	7,288.44	7,288.44	52.20	126.23	62.15	-1,439.48	3,026.72	3,522.31	3,346.91	175.40	20.082	
7,950.00	7,394.83	7,335.83	7,335.83	52.39	127.06	47.67	-1,439.48	3,026.72	3,512.79	3,336.36	176.43	19.910	
8,000.00	7,441.68	7,382.68	7,382.68	52.53	127.87	35.47	-1,439.48	3,026.72	3,499.34	3,321.91	177.42	19.723	
8,050.00	7,487.65	7,428.65	7,428.65	52.62	128.68	25.78	-1,439.48	3,026.72	3,482.04	3,303.67	178.37	19.522	
8,100.00	7,532.37	7,473.37	7,473.37	52.67	129.46	18.12	-1,439.48	3,026.72	3,461.02	3,281.75	179.27	19.306	
8,150.00	7,575.52	7,516.52	7,516.52	52.67	130.21	11.90	-1,439.48	3,026.72	3,436.42	3,256.31	180.11	19.079	
8,200.00	7,616.76	7,557.76	7,557.76	52.63	130.93	6.61	-1,439.48	3,026.72	3,408.42	3,227.52	180.90	18.842	
8,250.00	7,655.77	7,603.23	7,596.77	52.55	131.72	1.86	-1,439.48	3,026.72	3,377.23	3,195.50	181.73	18.584	
8,300.00	7,692.27	7,633.27	7,633.27	52.44	132.25	-2.71	-1,439.48	3,026.72	3,343.08	3,160.80	182.27	18.341	
8,350.00	7,725.97	7,666.97	7,666.97	52.29	132.84	-7.37	-1,439.48	3,026.72	3,306.23	3,123.37	182.86	18.081	
8,400.00	7,756.62	7,702.38	7,697.62	52.12	133.45	-12.45	-1,439.48	3,026.72	3,266.96	3,083.51	183.45	17.808	
8,450.00	7,783.98	7,724.98	7,724.98	51.92	133.85	-18.28	-1,439.48	3,026.72	3,225.59	3,041.79	183.80	17.549	
8,500.00	7,807.85	7,748.85	7,748.85	51.70	134.27	-25.26	-1,439.48	3,026.72	3,182.44	2,998.29	184.15	17.281	
8,550.00	7,828.05	7,769.05	7,769.05	51.45	134.62	-33.83	-1,439.48	3,026.72	3,137.85	2,953.43	184.43	17.014	
8,600.00	7,844.41	7,785.41	7,785.41	51.20	134.90	-44.35	-1,439.48	3,026.72	3,092.18	2,907.57	184.62	16.749	
8,650.00	7,856.82	7,802.18	7,797.82	50.93	135.20	-56.80	-1,439.48	3,026.72	3,045.80	2,861.00	184.80	16.482	
8,700.00	7,865.18	7,806.18	7,806.18	50.65	135.27	-70.39	-1,439.48	3,026.72	2,999.09	2,814.34	184.75	16.233	
8,750.00	7,869.43	7,810.43	7,810.43	50.36	135.34	-83.65	-1,439.48	3,026.72	2,952.43	2,767.74	184.69	15.986	
8,776.25	7,870.00	7,811.00	7,811.00	50.21	135.35	-90.00	-1,439.48	3,026.72	2,928.08	2,743.45	184.63	15.859	
8,800.00	7,870.00	7,811.00	7,811.00	50.08	135.35	-90.00	-1,439.48	3,026.72	2,906.14	2,721.58	184.56	15.746	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,811.00	7,811.00	49.53	135.35	-90.00	-1,439.48	3,026.72	2,814.06	2,629.79	184.27	15.271	
9,000.00	7,870.00	7,811.00	7,811.00	49.01	135.35	-90.00	-1,439.48	3,026.72	2,722.55	2,538.59	183.96	14.799	
9,100.00	7,870.00	7,811.00	7,811.00	48.52	135.35	-90.00	-1,439.48	3,026.72	2,631.65	2,448.01	183.64	14.330	
9,200.00	7,870.00	7,811.00	7,811.00	48.06	135.35	-90.00	-1,439.48	3,026.72	2,541.44	2,358.14	183.30	13.865	
9,300.00	7,870.00	7,811.00	7,811.00	47.63	135.35	-90.00	-1,439.48	3,026.72	2,451.98	2,269.04	182.94	13.403	
9,400.00	7,870.00	7,811.00	7,811.00	47.22	135.35	-90.00	-1,439.48	3,026.72	2,363.38	2,180.81	182.57	12.945	
9,500.00	7,870.00	7,811.00	7,811.00	46.83	135.35	-90.00	-1,439.48	3,026.72	2,275.71	2,093.54	182.17	12.492	
9,600.00	7,870.00	7,811.00	7,811.00	46.48	135.35	-90.00	-1,439.48	3,026.72	2,189.10	2,007.34	181.76	12.044	
9,700.00	7,870.00	7,811.00	7,811.00	46.14	135.35	-90.00	-1,439.48	3,026.72	2,103.69	1,922.35	181.34	11.601	
9,800.00	7,870.00	7,811.00	7,811.00	45.83	135.35	-90.00	-1,439.48	3,026.72	2,019.61	1,838.71	180.89	11.165	
9,900.00	7,870.00	7,811.00	7,811.00	45.54	135.35	-90.00	-1,439.48	3,026.72	1,937.04	1,756.60	180.44	10.735	
10,000.00	7,870.00	7,811.00	7,811.00	45.27	135.35	-90.00	-1,439.48	3,026.72	1,856.19	1,676.20	179.99	10.313	
10,100.00	7,870.00	7,811.00	7,811.00	45.03	135.35	-90.00	-1,439.48	3,026.72	1,777.29	1,597.75	179.54	9.899	
10,200.00	7,870.00	7,811.00	7,811.00	44.82	135.35	-90.00	-1,439.48	3,026.72	1,700.61	1,521.51	179.10	9.495	
10,300.00	7,870.00	7,811.00	7,811.00	44.66	135.35	-90.00	-1,439.48	3,026.72	1,626.47	1,447.77	178.70	9.102	
10,400.00	7,870.00	7,811.00	7,811.00	44.56	135.35	-90.00	-1,439.48	3,026.72	1,555.22	1,376.87	178.35	8.720	
10,500.00	7,870.00	7,811.00	7,811.00	44.58	135.35	-90.00	-1,439.48	3,026.72	1,487.29	1,309.20	178.09	8.351	
10,600.00	7,870.00	7,811.00	7,811.00	44.82	135.35	-90.00	-1,439.48	3,026.72	1,423.15	1,245.20	177.95	7.998	
10,700.00	7,870.00	7,811.00	7,811.00	45.36	135.35	-90.00	-1,439.48	3,026.72	1,363.33	1,185.36	177.97	7.660	
10,800.00	7,870.00	7,811.00	7,811.00	46.15	135.35	-90.00	-1,439.48	3,026.72	1,308.43	1,130.23	178.20	7.342	
10,900.00	7,870.00	7,811.00	7,811.00	47.09	135.35	-90.00	-1,439.48	3,026.72	1,259.09	1,080.40	178.69	7.046	
11,000.00	7,870.00	7,811.00	7,811.00	48.13	135.35	-90.00	-1,439.48	3,026.72	1,215.98	1,036.52	179.46	6.776	
11,100.00	7,870.00	7,811.00	7,811.00	49.22	135.35	-90.00	-1,439.48	3,026.72	1,179.80	999.25	180.55	6.534	
11,200.00	7,870.00	7,811.00	7,811.00	50.37	135.35	-90.00	-1,439.48	3,026.72	1,151.19	969.25	181.94	6.327	
11,300.00	7,870.00	7,811.00	7,811.00	51.55	135.35	-90.00	-1,439.48	3,026.72	1,130.74	947.14	183.60	6.159	
11,400.00	7,870.00	7,811.00	7,811.00	52.76	135.35	-90.00	-1,439.48	3,026.72	1,118.88	933.43	185.45	6.033	
11,483.42	7,870.00	7,811.00	7,811.00	53.79	135.35	-90.00	-1,439.48	3,026.72	1,115.76	928.68	187.08	5.964	CC
11,500.00	7,870.00	7,811.00	7,811.00	54.00	135.35	-90.00	-1,439.48	3,026.72	1,115.89	928.48	187.41	5.954	ES
11,600.00	7,870.00	7,811.00	7,811.00	55.27	135.35	-90.00	-1,439.48	3,026.72	1,121.84	932.46	189.38	5.924	SF
11,700.00	7,870.00	7,811.00	7,811.00	56.56	135.35	-90.00	-1,439.48	3,026.72	1,136.59	945.32	191.27	5.942	
11,800.00	7,870.00	7,811.00	7,811.00	57.88	135.35	-90.00	-1,439.48	3,026.72	1,159.81	966.80	193.01	6.009	
11,900.00	7,870.00	7,811.00	7,811.00	59.21	135.35	-90.00	-1,439.48	3,026.72	1,190.99	996.45	194.55	6.122	
12,000.00	7,870.00	7,811.00	7,811.00	60.57	135.35	-90.00	-1,439.48	3,026.72	1,229.55	1,033.68	195.87	6.277	
12,100.00	7,870.00	7,811.00	7,811.00	61.94	135.35	-90.00	-1,439.48	3,026.72	1,274.79	1,077.83	196.96	6.472	
12,200.00	7,870.00	7,811.00	7,811.00	63.33	135.35	-90.00	-1,439.48	3,026.72	1,326.05	1,128.20	197.85	6.702	
12,300.00	7,870.00	7,811.00	7,811.00	64.74	135.35	-90.00	-1,439.48	3,026.72	1,382.66	1,184.11	198.55	6.964	
12,400.00	7,870.00	7,811.00	7,811.00	66.16	135.35	-90.00	-1,439.48	3,026.72	1,443.97	1,244.89	199.09	7.253	
12,500.00	7,870.00	7,811.00	7,811.00	67.59	135.35	-90.00	-1,439.48	3,026.72	1,509.43	1,309.94	199.48	7.567	
12,600.00	7,870.00	7,811.00	7,811.00	69.04	135.35	-90.00	-1,439.48	3,026.72	1,578.51	1,378.74	199.77	7.902	
12,700.00	7,870.00	7,811.00	7,811.00	70.51	135.35	-90.00	-1,439.48	3,026.72	1,650.76	1,450.80	199.96	8.255	
12,800.00	7,870.00	7,811.00	7,811.00	71.98	135.35	-90.00	-1,439.48	3,026.72	1,725.78	1,525.70	200.08	8.625	
12,900.00	7,870.00	7,811.00	7,811.00	73.47	135.35	-90.00	-1,439.48	3,026.72	1,803.23	1,603.09	200.14	9.010	
13,000.00	7,870.00	7,811.00	7,811.00	74.96	135.35	-90.00	-1,439.48	3,026.72	1,882.81	1,682.64	200.16	9.406	
13,100.00	7,870.00	7,811.00	7,811.00	76.47	135.35	-90.00	-1,439.48	3,026.72	1,964.25	1,764.10	200.14	9.814	
13,200.00	7,870.00	7,811.00	7,811.00	77.99	135.35	-90.00	-1,439.48	3,026.72	2,047.34	1,847.24	200.10	10.232	
13,300.00	7,870.00	7,811.00	7,811.00	79.51	135.35	-90.00	-1,439.48	3,026.72	2,131.88	1,931.84	200.04	10.657	
13,400.00	7,870.00	7,811.00	7,811.00	81.05	135.35	-90.00	-1,439.48	3,026.72	2,217.71	2,017.75	199.96	11.091	
13,500.00	7,870.00	7,811.00	7,811.00	82.59	135.35	-90.00	-1,439.48	3,026.72	2,304.68	2,104.81	199.87	11.531	
13,600.00	7,870.00	7,811.00	7,811.00	84.14	135.35	-90.00	-1,439.48	3,026.72	2,392.67	2,192.89	199.77	11.977	
13,700.00	7,870.00	7,811.00	7,811.00	85.70	135.35	-90.00	-1,439.48	3,026.72	2,481.57	2,281.89	199.67	12.428	
13,800.00	7,870.00	7,811.00	7,811.00	87.26	135.35	-90.00	-1,439.48	3,026.72	2,571.28	2,371.71	199.57	12.884	
13,900.00	7,870.00	7,811.00	7,811.00	88.83	135.35	-90.00	-1,439.48	3,026.72	2,661.73	2,462.26	199.47	13.344	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,811.00	7,811.00	90.41	135.35	-90.00	-1,439.48	3,026.72	2,752.84	2,553.48	199.36	13.808	
14,100.00	7,870.00	7,811.00	7,811.00	92.00	135.35	-90.00	-1,439.48	3,026.72	2,844.55	2,645.29	199.26	14.276	
14,200.00	7,870.00	7,811.00	7,811.00	93.59	135.35	-90.00	-1,439.48	3,026.72	2,936.79	2,737.64	199.16	14.746	
14,300.00	7,870.00	7,811.00	7,811.00	95.18	135.35	-90.00	-1,439.48	3,026.72	3,029.53	2,830.47	199.06	15.219	
14,400.00	7,870.00	7,811.00	7,811.00	96.79	135.35	-90.00	-1,439.48	3,026.72	3,122.72	2,923.76	198.96	15.695	
14,500.00	7,870.00	7,811.00	7,811.00	98.39	135.35	-90.00	-1,439.48	3,026.72	3,216.32	3,017.45	198.87	16.173	
14,600.00	7,870.00	7,811.00	7,811.00	100.00	135.35	-90.00	-1,439.48	3,026.72	3,310.29	3,111.51	198.78	16.653	
14,700.00	7,870.00	7,811.00	7,811.00	101.62	135.35	-90.00	-1,439.48	3,026.72	3,404.61	3,205.91	198.69	17.135	
14,800.00	7,870.00	7,811.00	7,811.00	103.24	135.35	-90.00	-1,439.48	3,026.72	3,499.24	3,300.63	198.61	17.619	
14,900.00	7,870.00	7,811.00	7,811.00	104.87	135.35	-90.00	-1,439.48	3,026.72	3,594.16	3,395.63	198.53	18.104	
15,000.00	7,870.00	7,811.00	7,811.00	106.50	135.35	-90.00	-1,439.48	3,026.72	3,689.35	3,490.90	198.45	18.591	
15,100.00	7,870.00	7,811.00	7,811.00	108.13	135.35	-90.00	-1,439.48	3,026.72	3,784.79	3,586.41	198.38	19.079	
15,200.00	7,870.00	7,811.00	7,811.00	109.77	135.35	-90.00	-1,439.48	3,026.72	3,880.45	3,682.15	198.31	19.568	
15,300.00	7,870.00	7,811.00	7,811.00	111.41	135.35	-90.00	-1,439.48	3,026.72	3,976.34	3,778.10	198.24	20.058	
15,400.00	7,870.00	7,811.00	7,811.00	113.05	135.35	-90.00	-1,439.48	3,026.72	4,072.42	3,874.24	198.18	20.549	
15,500.00	7,870.00	7,811.00	7,811.00	114.70	135.35	-90.00	-1,439.48	3,026.72	4,168.68	3,970.56	198.12	21.042	
15,600.00	7,870.00	7,811.00	7,811.00	116.35	135.35	-90.00	-1,439.48	3,026.72	4,265.11	4,067.06	198.06	21.535	
15,700.00	7,870.00	7,811.00	7,811.00	118.00	135.35	-90.00	-1,439.48	3,026.72	4,361.71	4,163.71	198.00	22.028	
15,800.00	7,870.00	7,811.00	7,811.00	119.66	135.35	-90.00	-1,439.48	3,026.72	4,458.46	4,260.50	197.95	22.523	
15,900.00	7,870.00	7,811.00	7,811.00	121.32	135.35	-90.00	-1,439.48	3,026.72	4,555.34	4,357.44	197.90	23.018	
16,000.00	7,870.00	7,811.00	7,811.00	122.98	135.35	-90.00	-1,439.48	3,026.72	4,652.36	4,454.50	197.86	23.514	
16,100.00	7,870.00	7,811.00	7,811.00	124.65	135.35	-90.00	-1,439.48	3,026.72	4,749.50	4,551.69	197.81	24.010	
16,200.00	7,870.00	7,811.00	7,811.00	126.32	135.35	-90.00	-1,439.48	3,026.72	4,846.76	4,648.99	197.77	24.507	
16,300.00	7,870.00	7,811.00	7,811.00	127.99	135.35	-90.00	-1,439.48	3,026.72	4,944.13	4,746.40	197.73	25.004	
16,400.00	7,870.00	7,811.00	7,811.00	129.66	135.35	-90.00	-1,439.48	3,026.72	5,041.60	4,843.90	197.70	25.501	
16,500.00	7,870.00	7,811.00	7,811.00	131.33	135.35	-90.00	-1,439.48	3,026.72	5,139.17	4,941.50	197.66	25.999	
16,600.00	7,870.00	7,811.00	7,811.00	133.01	135.35	-90.00	-1,439.48	3,026.72	5,236.83	5,039.20	197.63	26.498	
16,700.00	7,870.00	7,811.00	7,811.00	134.69	135.35	-90.00	-1,439.48	3,026.72	5,334.57	5,136.97	197.60	26.996	
16,800.00	7,870.00	7,811.00	7,811.00	136.37	135.35	-90.00	-1,439.48	3,026.72	5,432.40	5,234.83	197.58	27.495	
16,900.00	7,870.00	7,811.00	7,811.00	138.06	135.35	-90.00	-1,439.48	3,026.72	5,530.31	5,332.76	197.55	27.994	
17,000.00	7,870.00	7,811.00	7,811.00	139.74	135.35	-90.00	-1,439.48	3,026.72	5,628.29	5,430.76	197.53	28.494	
17,100.00	7,870.00	7,811.00	7,811.00	141.43	135.35	-90.00	-1,439.48	3,026.72	5,726.34	5,528.83	197.51	28.993	
17,200.00	7,870.00	7,811.00	7,811.00	143.12	135.35	-90.00	-1,439.48	3,026.72	5,824.45	5,626.97	197.49	29.493	
17,300.00	7,870.00	7,811.00	7,811.00	144.81	135.35	-90.00	-1,439.48	3,026.72	5,922.63	5,725.16	197.47	29.992	
17,400.00	7,870.00	7,811.00	7,811.00	146.50	135.35	-90.00	-1,439.48	3,026.72	6,020.87	5,823.42	197.46	30.492	
17,500.00	7,870.00	7,811.00	7,811.00	148.19	135.35	-90.00	-1,439.48	3,026.72	6,119.17	5,921.73	197.44	30.992	
17,600.00	7,870.00	7,811.00	7,811.00	149.89	135.35	-90.00	-1,439.48	3,026.72	6,217.52	6,020.09	197.43	31.492	
17,700.00	7,870.00	7,811.00	7,811.00	151.59	135.35	-90.00	-1,439.48	3,026.72	6,315.92	6,118.50	197.42	31.993	
17,800.00	7,870.00	7,811.00	7,811.00	153.29	135.35	-90.00	-1,439.48	3,026.72	6,414.37	6,216.96	197.41	32.493	
17,900.00	7,870.00	7,811.00	7,811.00	154.99	135.35	-90.00	-1,439.48	3,026.72	6,512.87	6,315.47	197.40	32.993	
18,000.00	7,870.00	7,811.00	7,811.00	156.69	135.35	-90.00	-1,439.48	3,026.72	6,611.42	6,414.02	197.40	33.493	
18,100.00	7,870.00	7,811.00	7,811.00	158.39	135.35	-90.00	-1,439.48	3,026.72	6,710.00	6,512.61	197.39	33.993	
18,200.00	7,870.00	7,811.00	7,811.00	160.09	135.35	-90.00	-1,439.48	3,026.72	6,808.63	6,611.24	197.39	34.493	
18,300.00	7,870.00	7,811.00	7,811.00	161.80	135.35	-90.00	-1,439.48	3,026.72	6,907.30	6,709.91	197.39	34.994	
18,400.00	7,870.00	7,811.00	7,811.00	163.51	135.35	-90.00	-1,439.48	3,026.72	7,006.00	6,808.62	197.39	35.494	
18,455.45	7,870.00	7,811.00	7,811.00	164.45	135.35	-90.00	-1,439.48	3,026.72	7,060.75	6,863.36	197.39	35.771	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	108.39	-1,435.65	4,317.61	4,550.20				
100.00	100.00	62.00	62.00	0.13	0.47	108.39	-1,435.65	4,317.61	4,550.04	4,549.43	0.61	7,518.949	
200.00	200.00	162.00	162.00	0.49	1.84	108.39	-1,435.65	4,317.61	4,550.04	4,547.70	2.33	1,949.274	
300.00	300.00	262.00	262.00	0.85	3.59	108.39	-1,435.65	4,317.61	4,550.04	4,545.60	4.44	1,025.240	
400.00	400.00	362.00	362.00	1.21	5.33	108.39	-1,435.65	4,317.61	4,550.04	4,543.50	6.54	695.531	
500.00	500.00	462.00	462.00	1.57	7.08	108.39	-1,435.65	4,317.61	4,550.04	4,541.39	8.65	526.282	
600.00	600.00	562.00	562.00	1.93	8.82	108.39	-1,435.65	4,317.61	4,550.04	4,539.29	10.75	423.282	
700.00	700.00	662.00	662.00	2.29	10.57	108.39	-1,435.65	4,317.61	4,550.04	4,537.18	12.85	354.000	
800.00	800.00	762.00	762.00	2.64	12.31	108.39	-1,435.65	4,317.61	4,550.04	4,535.08	14.96	304.207	
900.00	900.00	862.00	862.00	3.00	14.06	108.39	-1,435.65	4,317.61	4,550.04	4,532.98	17.06	266.695	
1,000.00	1,000.00	962.00	962.00	3.36	15.80	108.39	-1,435.65	4,317.61	4,550.04	4,530.87	19.16	237.419	
1,100.00	1,100.00	1,062.00	1,062.00	3.72	17.55	108.39	-1,435.65	4,317.61	4,550.04	4,528.77	21.27	213.934	
1,200.00	1,200.00	1,162.00	1,162.00	4.08	19.29	108.39	-1,435.65	4,317.61	4,550.04	4,526.67	23.37	194.677	
1,300.00	1,300.00	1,262.00	1,262.00	4.44	21.04	108.39	-1,435.65	4,317.61	4,550.04	4,524.56	25.48	178.601	
1,400.00	1,399.98	1,361.98	1,361.98	4.79	22.78	65.48	-1,435.65	4,317.61	4,549.31	4,521.74	27.58	164.969	
1,500.00	1,499.84	1,461.84	1,461.84	5.15	24.53	65.58	-1,435.65	4,317.61	4,547.14	4,517.47	29.67	153.240	
1,600.00	1,599.45	1,561.45	1,561.45	5.51	26.27	65.75	-1,435.65	4,317.61	4,543.54	4,511.77	31.77	143.023	
1,700.00	1,698.70	1,660.70	1,660.70	5.87	28.00	65.98	-1,435.65	4,317.61	4,538.52	4,504.66	33.86	134.034	
1,800.00	1,797.47	1,759.47	1,759.47	6.24	29.72	66.27	-1,435.65	4,317.61	4,532.13	4,496.17	35.95	126.053	
1,900.00	1,895.62	1,857.62	1,857.62	6.63	31.44	66.63	-1,435.65	4,317.61	4,524.39	4,486.34	38.05	118.908	
2,000.00	1,993.06	1,955.06	1,955.06	7.04	33.14	67.06	-1,435.65	4,317.61	4,515.34	4,475.20	40.15	112.465	
2,100.00	2,089.64	2,051.64	2,051.64	7.48	34.82	67.54	-1,435.65	4,317.61	4,505.06	4,462.80	42.26	106.615	
2,200.00	2,185.27	2,147.27	2,147.27	7.94	36.49	68.09	-1,435.65	4,317.61	4,493.59	4,449.22	44.37	101.270	
2,300.00	2,279.82	2,241.82	2,241.82	8.45	38.14	68.69	-1,435.65	4,317.61	4,481.01	4,434.51	46.50	96.361	
2,400.00	2,373.17	2,335.17	2,335.17	8.99	39.77	69.35	-1,435.65	4,317.61	4,467.40	4,418.75	48.65	91.829	
2,500.00	2,465.21	2,427.21	2,427.21	9.58	41.38	70.07	-1,435.65	4,317.61	4,452.83	4,402.02	50.81	87.630	
2,574.08	2,532.50	2,505.50	2,494.50	10.04	42.74	70.63	-1,435.65	4,317.61	4,441.49	4,388.86	52.62	84.400	
2,600.00	2,555.89	2,517.89	2,517.89	10.21	42.96	70.75	-1,435.65	4,317.61	4,437.45	4,384.45	53.00	83.724	
2,700.00	2,646.16	2,608.16	2,608.16	10.88	44.53	71.23	-1,435.65	4,317.61	4,422.12	4,366.90	55.21	80.091	
2,800.00	2,736.44	2,701.56	2,698.44	11.57	46.17	71.72	-1,435.65	4,317.61	4,407.15	4,349.64	57.50	76.640	
2,900.00	2,826.71	2,788.71	2,788.71	12.27	47.69	72.20	-1,435.65	4,317.61	4,392.54	4,332.84	59.71	73.568	
3,000.00	2,916.98	2,878.98	2,878.98	13.00	49.26	72.69	-1,435.65	4,317.61	4,378.32	4,316.34	61.98	70.638	
3,100.00	3,007.25	2,969.25	2,969.25	13.73	50.84	73.18	-1,435.65	4,317.61	4,364.47	4,300.20	64.27	67.905	
3,200.00	3,097.52	3,059.52	3,059.52	14.48	52.41	73.68	-1,435.65	4,317.61	4,351.00	4,284.43	66.58	65.352	
3,300.00	3,187.80	3,149.80	3,149.80	15.23	53.99	74.17	-1,435.65	4,317.61	4,337.92	4,269.03	68.89	62.965	
3,400.00	3,278.07	3,240.07	3,240.07	15.99	55.56	74.67	-1,435.65	4,317.61	4,325.23	4,254.00	71.22	60.728	
3,500.00	3,368.34	3,330.34	3,330.34	16.76	57.14	75.17	-1,435.65	4,317.61	4,312.93	4,239.37	73.56	58.631	
3,600.00	3,458.61	3,420.61	3,420.61	17.54	58.71	75.68	-1,435.65	4,317.61	4,301.02	4,225.11	75.91	56.662	
3,700.00	3,548.89	3,510.89	3,510.89	18.32	60.29	76.18	-1,435.65	4,317.61	4,289.51	4,211.25	78.26	54.810	
3,800.00	3,639.16	3,601.16	3,601.16	19.10	61.87	76.69	-1,435.65	4,317.61	4,278.40	4,197.78	80.62	53.067	
3,900.00	3,729.43	3,708.57	3,691.43	19.89	63.74	77.20	-1,435.65	4,317.61	4,267.70	4,184.41	83.29	51.240	
4,000.00	3,819.70	3,781.70	3,781.70	20.69	65.02	77.71	-1,435.65	4,317.61	4,257.41	4,172.04	85.36	49.874	
4,100.00	3,909.98	3,871.98	3,871.98	21.48	66.59	78.23	-1,435.65	4,317.61	4,247.52	4,159.78	87.74	48.409	
4,200.00	4,000.25	3,962.25	3,962.25	22.28	68.17	78.75	-1,435.65	4,317.61	4,238.06	4,147.93	90.13	47.023	
4,300.00	4,090.52	4,052.52	4,052.52	23.08	69.74	79.26	-1,435.65	4,317.61	4,229.00	4,136.49	92.51	45.712	
4,400.00	4,180.79	4,142.79	4,142.79	23.88	71.32	79.78	-1,435.65	4,317.61	4,220.37	4,125.46	94.91	44.469	
4,500.00	4,271.06	4,233.06	4,233.06	24.69	72.89	80.30	-1,435.65	4,317.61	4,212.16	4,114.85	97.30	43.290	
4,600.00	4,361.34	4,323.34	4,323.34	25.49	74.47	80.83	-1,435.65	4,317.61	4,204.37	4,104.67	99.70	42.170	
4,700.00	4,451.61	4,413.61	4,413.61	26.30	76.05	81.35	-1,435.65	4,317.61	4,197.01	4,094.91	102.10	41.106	
4,800.00	4,541.88	4,503.88	4,503.88	27.11	77.62	81.88	-1,435.65	4,317.61	4,190.08	4,085.57	104.50	40.095	
4,900.00	4,632.15	4,605.85	4,594.15	27.92	79.40	82.41	-1,435.65	4,317.61	4,183.57	4,076.46	107.11	39.057	
5,000.00	4,722.43	4,684.43	4,684.43	28.74	80.77	82.94	-1,435.65	4,317.61	4,177.51	4,068.19	109.32	38.215	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,774.70	4,774.70	29.55	82.35	83.47	-1,435.65	4,317.61	4,171.87	4,060.15	111.73	37.340	
5,200.00	4,902.97	4,864.97	4,864.97	30.37	83.92	84.00	-1,435.65	4,317.61	4,166.68	4,052.54	114.14	36.506	
5,300.00	4,993.24	4,955.24	4,955.24	31.18	85.50	84.53	-1,435.65	4,317.61	4,161.92	4,045.37	116.55	35.711	
5,400.00	5,083.51	5,045.51	5,045.51	32.00	87.07	85.06	-1,435.65	4,317.61	4,157.60	4,038.64	118.96	34.951	
5,500.00	5,173.79	5,135.79	5,135.79	32.82	88.65	85.60	-1,435.65	4,317.61	4,153.72	4,032.35	121.37	34.224	
5,600.00	5,264.06	5,226.06	5,226.06	33.63	90.23	86.13	-1,435.65	4,317.61	4,150.28	4,026.51	123.78	33.530	
5,700.00	5,354.33	5,316.33	5,316.33	34.45	91.80	86.67	-1,435.65	4,317.61	4,147.29	4,021.10	126.19	32.866	
5,800.00	5,444.60	5,406.60	5,406.60	35.27	93.38	87.20	-1,435.65	4,317.61	4,144.74	4,016.15	128.60	32.230	
5,900.00	5,534.88	5,503.12	5,496.88	36.09	95.06	87.74	-1,435.65	4,317.61	4,142.64	4,011.52	131.12	31.595	
6,000.00	5,625.15	5,587.15	5,587.15	36.91	96.53	88.28	-1,435.65	4,317.61	4,140.99	4,007.57	133.42	31.038	
6,100.00	5,715.42	5,677.42	5,677.42	37.74	98.10	88.81	-1,435.65	4,317.61	4,139.78	4,003.95	135.82	30.479	
6,200.00	5,805.69	5,767.69	5,767.69	38.56	99.68	89.35	-1,435.65	4,317.61	4,139.01	4,000.78	138.23	29.943	
6,300.00	5,895.96	5,857.96	5,857.96	39.38	101.25	89.89	-1,435.65	4,317.61	4,138.70	3,998.07	140.63	29.429	
6,320.63	5,914.59	5,876.59	5,876.59	39.55	101.58	90.00	-1,435.65	4,317.61	4,138.69	3,997.56	141.13	29.326	
6,400.00	5,986.24	5,948.24	5,948.24	40.20	102.83	90.43	-1,435.65	4,317.61	4,138.83	3,995.80	143.03	28.936	
6,500.00	6,076.51	6,038.51	6,038.51	41.03	104.41	90.96	-1,435.65	4,317.61	4,139.41	3,993.98	145.43	28.463	
6,600.00	6,166.78	6,128.78	6,128.78	41.85	105.98	91.50	-1,435.65	4,317.61	4,140.43	3,992.60	147.83	28.008	
6,700.00	6,257.05	6,219.05	6,219.05	42.67	107.56	92.04	-1,435.65	4,317.61	4,141.91	3,991.68	150.22	27.572	
6,800.00	6,347.33	6,309.33	6,309.33	43.50	109.13	92.58	-1,435.65	4,317.61	4,143.82	3,991.21	152.61	27.152	
6,900.00	6,437.60	6,400.40	6,399.60	44.32	110.72	93.11	-1,435.65	4,317.61	4,146.19	3,991.17	155.01	26.747	
7,000.00	6,527.87	6,489.87	6,489.87	45.15	112.28	93.65	-1,435.65	4,317.61	4,149.00	3,991.61	157.38	26.362	
7,100.00	6,618.14	6,580.14	6,580.14	45.98	113.86	94.18	-1,435.65	4,317.61	4,152.25	3,992.48	159.77	25.990	
7,200.00	6,708.41	6,670.41	6,670.41	46.80	115.43	94.72	-1,435.65	4,317.61	4,155.94	3,993.80	162.14	25.631	
7,300.00	6,798.69	6,760.69	6,760.69	47.63	117.01	95.25	-1,435.65	4,317.61	4,160.08	3,995.57	164.52	25.287	
7,400.00	6,888.96	6,850.96	6,850.96	48.45	118.59	95.78	-1,435.65	4,317.61	4,164.66	3,997.77	166.88	24.955	
7,500.00	6,979.23	6,941.23	6,941.23	49.28	120.16	96.32	-1,435.65	4,317.61	4,169.67	4,000.43	169.25	24.636	
7,600.00	7,069.50	7,031.50	7,031.50	50.11	121.74	96.85	-1,435.65	4,317.61	4,175.13	4,003.52	171.61	24.329	
7,692.09	7,152.63	7,114.63	7,114.63	50.87	123.19	97.33	-1,435.65	4,317.61	4,180.54	4,006.76	173.78	24.057	
7,700.00	7,159.79	7,121.79	7,121.79	50.93	123.31	96.19	-1,435.65	4,317.61	4,180.97	4,007.01	173.97	24.033	
7,750.00	7,205.70	7,167.70	7,167.70	51.32	124.11	87.42	-1,435.65	4,317.61	4,181.78	4,006.64	175.13	23.878	
7,800.00	7,252.52	7,214.52	7,214.52	51.66	124.93	75.75	-1,435.65	4,317.61	4,179.17	4,002.88	176.28	23.707	
7,850.00	7,299.89	7,261.89	7,261.89	51.96	125.76	61.33	-1,435.65	4,317.61	4,173.13	3,995.72	177.40	23.524	
7,900.00	7,347.44	7,309.44	7,309.44	52.20	126.59	45.56	-1,435.65	4,317.61	4,163.68	3,985.20	178.48	23.329	
7,950.00	7,394.83	7,356.83	7,356.83	52.39	127.41	30.54	-1,435.65	4,317.61	4,150.87	3,971.36	179.51	23.124	
8,000.00	7,441.68	7,403.68	7,403.68	52.53	128.23	17.71	-1,435.65	4,317.61	4,134.78	3,954.29	180.48	22.909	
8,050.00	7,487.65	7,449.65	7,449.65	52.62	129.03	7.25	-1,435.65	4,317.61	4,115.51	3,934.11	181.40	22.687	
8,100.00	7,532.37	7,505.63	7,494.37	52.67	130.01	-1.30	-1,435.65	4,317.61	4,093.22	3,910.77	182.45	22.435	
8,150.00	7,575.52	7,537.52	7,537.52	52.67	130.57	-8.53	-1,435.65	4,317.61	4,068.05	3,885.01	183.04	22.225	
8,200.00	7,616.76	7,578.76	7,578.76	52.63	131.29	-14.97	-1,435.65	4,317.61	4,040.22	3,856.47	183.75	21.987	
8,250.00	7,655.77	7,617.77	7,617.77	52.55	131.97	-21.00	-1,435.65	4,317.61	4,009.94	3,825.55	184.39	21.747	
8,300.00	7,692.27	7,654.27	7,654.27	52.44	132.61	-26.92	-1,435.65	4,317.61	3,977.46	3,792.51	184.95	21.506	
8,350.00	7,725.97	7,687.97	7,687.97	52.29	133.19	-32.94	-1,435.65	4,317.61	3,943.04	3,757.62	185.42	21.265	
8,400.00	7,756.62	7,718.62	7,718.62	52.12	133.73	-39.22	-1,435.65	4,317.61	3,906.98	3,721.17	185.81	21.027	
8,450.00	7,783.98	7,745.98	7,745.98	51.92	134.21	-45.83	-1,435.65	4,317.61	3,869.59	3,683.48	186.11	20.792	
8,500.00	7,807.85	7,769.85	7,769.85	51.70	134.62	-52.78	-1,435.65	4,317.61	3,831.19	3,644.87	186.31	20.563	
8,550.00	7,828.05	7,809.95	7,790.05	51.45	135.32	-59.98	-1,435.65	4,317.61	3,792.10	3,605.33	186.78	20.303	
8,600.00	7,844.41	7,806.41	7,806.41	51.20	135.26	-67.23	-1,435.65	4,317.61	3,752.68	3,566.23	186.45	20.127	
8,650.00	7,856.82	7,818.82	7,818.82	50.93	135.48	-74.33	-1,435.65	4,317.61	3,713.27	3,526.89	186.39	19.923	
8,700.00	7,865.18	7,827.18	7,827.18	50.65	135.62	-81.01	-1,435.65	4,317.61	3,674.21	3,487.99	186.23	19.730	
8,750.00	7,869.43	7,831.43	7,831.43	50.36	135.70	-87.09	-1,435.65	4,317.61	3,635.85	3,449.87	185.98	19.549	
8,776.25	7,870.00	7,832.00	7,832.00	50.21	135.71	-90.00	-1,435.65	4,317.61	3,616.10	3,430.28	185.82	19.460	
8,800.00	7,870.00	7,832.00	7,832.00	50.08	135.71	-90.00	-1,435.65	4,317.61	3,598.41	3,412.75	185.66	19.382	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,832.00	7,832.00	49.53	135.71	-90.00	-1,435.65	4,317.61	3,524.70	3,339.71	184.99	19.054	
9,000.00	7,870.00	7,832.00	7,832.00	49.01	135.71	-90.00	-1,435.65	4,317.61	3,452.31	3,268.01	184.30	18.732	
9,100.00	7,870.00	7,832.00	7,832.00	48.52	135.71	-90.00	-1,435.65	4,317.61	3,381.33	3,197.72	183.62	18.415	
9,200.00	7,870.00	7,832.00	7,832.00	48.06	135.71	-90.00	-1,435.65	4,317.61	3,311.86	3,128.93	182.93	18.105	
9,300.00	7,870.00	7,832.00	7,832.00	47.63	135.71	-90.00	-1,435.65	4,317.61	3,243.97	3,061.73	182.24	17.801	
9,400.00	7,870.00	7,832.00	7,832.00	47.22	135.71	-90.00	-1,435.65	4,317.61	3,177.78	2,996.22	181.56	17.502	
9,500.00	7,870.00	7,832.00	7,832.00	46.83	135.71	-90.00	-1,435.65	4,317.61	3,113.40	2,932.50	180.90	17.210	
9,600.00	7,870.00	7,832.00	7,832.00	46.48	135.71	-90.00	-1,435.65	4,317.61	3,050.94	2,870.67	180.27	16.925	
9,700.00	7,870.00	7,832.00	7,832.00	46.14	135.71	-90.00	-1,435.65	4,317.61	2,990.52	2,810.85	179.67	16.645	
9,800.00	7,870.00	7,832.00	7,832.00	45.83	135.71	-90.00	-1,435.65	4,317.61	2,932.26	2,753.15	179.11	16.371	
9,900.00	7,870.00	7,832.00	7,832.00	45.54	135.71	-90.00	-1,435.65	4,317.61	2,876.30	2,697.68	178.62	16.103	
10,000.00	7,870.00	7,832.00	7,832.00	45.27	135.71	-90.00	-1,435.65	4,317.61	2,822.78	2,644.58	178.20	15.841	
10,100.00	7,870.00	7,832.00	7,832.00	45.03	135.71	-90.00	-1,435.65	4,317.61	2,771.83	2,593.97	177.86	15.584	
10,200.00	7,870.00	7,832.00	7,832.00	44.82	135.71	-90.00	-1,435.65	4,317.61	2,723.60	2,545.97	177.63	15.333	
10,300.00	7,870.00	7,832.00	7,832.00	44.66	135.71	-90.00	-1,435.65	4,317.61	2,678.24	2,500.72	177.52	15.087	
10,400.00	7,870.00	7,832.00	7,832.00	44.56	135.71	-90.00	-1,435.65	4,317.61	2,635.89	2,458.35	177.54	14.847	
10,500.00	7,870.00	7,832.00	7,832.00	44.58	135.71	-90.00	-1,435.65	4,317.61	2,596.70	2,419.00	177.71	14.612	
10,600.00	7,870.00	7,832.00	7,832.00	44.82	135.71	-90.00	-1,435.65	4,317.61	2,560.83	2,382.79	178.03	14.384	
10,700.00	7,870.00	7,832.00	7,832.00	45.36	135.71	-90.00	-1,435.65	4,317.61	2,528.40	2,349.88	178.52	14.163	
10,800.00	7,870.00	7,832.00	7,832.00	46.15	135.71	-90.00	-1,435.65	4,317.61	2,499.55	2,320.38	179.17	13.951	
10,900.00	7,870.00	7,832.00	7,832.00	47.09	135.71	-90.00	-1,435.65	4,317.61	2,474.41	2,294.42	179.99	13.748	
11,000.00	7,870.00	7,832.00	7,832.00	48.13	135.71	-90.00	-1,435.65	4,317.61	2,453.09	2,272.13	180.96	13.556	
11,100.00	7,870.00	7,832.00	7,832.00	49.22	135.71	-90.00	-1,435.65	4,317.61	2,435.70	2,253.61	182.09	13.377	
11,200.00	7,870.00	7,832.00	7,832.00	50.37	135.71	-90.00	-1,435.65	4,317.61	2,422.31	2,238.97	183.34	13.212	
11,300.00	7,870.00	7,832.00	7,832.00	51.55	135.71	-90.00	-1,435.65	4,317.61	2,413.00	2,228.28	184.71	13.063	
11,400.00	7,870.00	7,832.00	7,832.00	52.76	135.71	-90.00	-1,435.65	4,317.61	2,407.80	2,221.62	186.18	12.932	
11,475.20	7,870.00	7,832.00	7,832.00	53.69	135.71	-90.00	-1,435.65	4,317.61	2,406.63	2,219.29	187.34	12.846	CC
11,500.00	7,870.00	7,832.00	7,832.00	54.00	135.71	-90.00	-1,435.65	4,317.61	2,406.76	2,219.03	187.73	12.820	ES
11,600.00	7,870.00	7,832.00	7,832.00	55.27	135.71	-90.00	-1,435.65	4,317.61	2,409.86	2,220.54	189.33	12.729	
11,700.00	7,870.00	7,832.00	7,832.00	56.56	135.71	-90.00	-1,435.65	4,317.61	2,417.10	2,226.15	190.96	12.658	
11,800.00	7,870.00	7,832.00	7,832.00	57.88	135.71	-90.00	-1,435.65	4,317.61	2,428.45	2,235.85	192.60	12.609	
11,900.00	7,870.00	7,832.00	7,832.00	59.21	135.71	-90.00	-1,435.65	4,317.61	2,443.83	2,249.59	194.24	12.582	
12,000.00	7,870.00	7,832.00	7,832.00	60.57	135.71	-90.00	-1,435.65	4,317.61	2,463.18	2,267.33	195.85	12.577	SF
12,100.00	7,870.00	7,832.00	7,832.00	61.94	135.71	-90.00	-1,435.65	4,317.61	2,486.41	2,288.98	197.43	12.594	
12,200.00	7,870.00	7,832.00	7,832.00	63.33	135.71	-90.00	-1,435.65	4,317.61	2,513.40	2,314.44	198.97	12.632	
12,300.00	7,870.00	7,832.00	7,832.00	64.74	135.71	-90.00	-1,435.65	4,317.61	2,544.04	2,343.60	200.44	12.692	
12,400.00	7,870.00	7,832.00	7,832.00	66.16	135.71	-90.00	-1,435.65	4,317.61	2,578.20	2,376.35	201.85	12.773	
12,500.00	7,870.00	7,832.00	7,832.00	67.59	135.71	-90.00	-1,435.65	4,317.61	2,615.74	2,412.55	203.19	12.874	
12,600.00	7,870.00	7,832.00	7,832.00	69.04	135.71	-90.00	-1,435.65	4,317.61	2,656.51	2,452.06	204.45	12.993	
12,700.00	7,870.00	7,832.00	7,832.00	70.51	135.71	-90.00	-1,435.65	4,317.61	2,700.37	2,494.73	205.64	13.132	
12,800.00	7,870.00	7,832.00	7,832.00	71.98	135.71	-90.00	-1,435.65	4,317.61	2,747.17	2,540.42	206.75	13.287	
12,900.00	7,870.00	7,832.00	7,832.00	73.47	135.71	-90.00	-1,435.65	4,317.61	2,796.77	2,588.98	207.79	13.460	
13,000.00	7,870.00	7,832.00	7,832.00	74.96	135.71	-90.00	-1,435.65	4,317.61	2,849.01	2,640.26	208.75	13.648	
13,100.00	7,870.00	7,832.00	7,832.00	76.47	135.71	-90.00	-1,435.65	4,317.61	2,903.76	2,694.12	209.64	13.851	
13,200.00	7,870.00	7,832.00	7,832.00	77.99	135.71	-90.00	-1,435.65	4,317.61	2,960.88	2,750.41	210.46	14.068	
13,300.00	7,870.00	7,832.00	7,832.00	79.51	135.71	-90.00	-1,435.65	4,317.61	3,020.23	2,809.00	211.22	14.299	
13,400.00	7,870.00	7,832.00	7,832.00	81.05	135.71	-90.00	-1,435.65	4,317.61	3,081.67	2,869.76	211.92	14.542	
13,500.00	7,870.00	7,832.00	7,832.00	82.59	135.71	-90.00	-1,435.65	4,317.61	3,145.10	2,932.55	212.56	14.797	
13,600.00	7,870.00	7,832.00	7,832.00	84.14	135.71	-90.00	-1,435.65	4,317.61	3,210.40	2,997.26	213.14	15.062	
13,700.00	7,870.00	7,832.00	7,832.00	85.70	135.71	-90.00	-1,435.65	4,317.61	3,277.44	3,063.76	213.67	15.339	
13,800.00	7,870.00	7,832.00	7,832.00	87.26	135.71	-90.00	-1,435.65	4,317.61	3,346.13	3,131.97	214.16	15.624	
13,900.00	7,870.00	7,832.00	7,832.00	88.83	135.71	-90.00	-1,435.65	4,317.61	3,416.36	3,201.76	214.60	15.919	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,832.00	7,832.00	90.41	135.71	-90.00	-1,435.65	4,317.61	3,488.05	3,273.04	215.01	16.223	
14,100.00	7,870.00	7,832.00	7,832.00	92.00	135.71	-90.00	-1,435.65	4,317.61	3,561.10	3,345.73	215.37	16.534	
14,200.00	7,870.00	7,832.00	7,832.00	93.59	135.71	-90.00	-1,435.65	4,317.61	3,635.44	3,419.73	215.71	16.854	
14,300.00	7,870.00	7,832.00	7,832.00	95.18	135.71	-90.00	-1,435.65	4,317.61	3,710.98	3,494.97	216.01	17.180	
14,400.00	7,870.00	7,832.00	7,832.00	96.79	135.71	-90.00	-1,435.65	4,317.61	3,787.65	3,571.37	216.28	17.512	
14,500.00	7,870.00	7,832.00	7,832.00	98.39	135.71	-90.00	-1,435.65	4,317.61	3,865.40	3,648.86	216.53	17.851	
14,600.00	7,870.00	7,832.00	7,832.00	100.00	135.71	-90.00	-1,435.65	4,317.61	3,944.14	3,727.38	216.76	18.196	
14,700.00	7,870.00	7,832.00	7,832.00	101.62	135.71	-90.00	-1,435.65	4,317.61	4,023.83	3,806.87	216.96	18.547	
14,800.00	7,870.00	7,832.00	7,832.00	103.24	135.71	-90.00	-1,435.65	4,317.61	4,104.41	3,887.27	217.14	18.902	
14,900.00	7,870.00	7,832.00	7,832.00	104.87	135.71	-90.00	-1,435.65	4,317.61	4,185.82	3,968.52	217.31	19.262	
15,000.00	7,870.00	7,832.00	7,832.00	106.50	135.71	-90.00	-1,435.65	4,317.61	4,268.03	4,050.58	217.46	19.627	
15,100.00	7,870.00	7,832.00	7,832.00	108.13	135.71	-90.00	-1,435.65	4,317.61	4,350.98	4,133.39	217.59	19.996	
15,200.00	7,870.00	7,832.00	7,832.00	109.77	135.71	-90.00	-1,435.65	4,317.61	4,434.64	4,216.93	217.71	20.369	
15,300.00	7,870.00	7,832.00	7,832.00	111.41	135.71	-90.00	-1,435.65	4,317.61	4,518.96	4,301.14	217.82	20.747	
15,400.00	7,870.00	7,832.00	7,832.00	113.05	135.71	-90.00	-1,435.65	4,317.61	4,603.90	4,385.99	217.91	21.127	
15,500.00	7,870.00	7,832.00	7,832.00	114.70	135.71	-90.00	-1,435.65	4,317.61	4,689.44	4,471.44	218.00	21.511	
15,600.00	7,870.00	7,832.00	7,832.00	116.35	135.71	-90.00	-1,435.65	4,317.61	4,775.55	4,557.47	218.08	21.898	
15,700.00	7,870.00	7,832.00	7,832.00	118.00	135.71	-90.00	-1,435.65	4,317.61	4,862.18	4,644.03	218.15	22.289	
15,800.00	7,870.00	7,832.00	7,832.00	119.66	135.71	-90.00	-1,435.65	4,317.61	4,949.32	4,731.11	218.21	22.682	
15,900.00	7,870.00	7,832.00	7,832.00	121.32	135.71	-90.00	-1,435.65	4,317.61	5,036.94	4,818.67	218.26	23.077	
16,000.00	7,870.00	7,832.00	7,832.00	122.98	135.71	-90.00	-1,435.65	4,317.61	5,125.01	4,906.69	218.31	23.476	
16,100.00	7,870.00	7,832.00	7,832.00	124.65	135.71	-90.00	-1,435.65	4,317.61	5,213.51	4,995.15	218.35	23.876	
16,200.00	7,870.00	7,832.00	7,832.00	126.32	135.71	-90.00	-1,435.65	4,317.61	5,302.42	5,084.02	218.39	24.279	
16,300.00	7,870.00	7,832.00	7,832.00	127.99	135.71	-90.00	-1,435.65	4,317.61	5,391.71	5,173.29	218.42	24.685	
16,400.00	7,870.00	7,832.00	7,832.00	129.66	135.71	-90.00	-1,435.65	4,317.61	5,481.38	5,262.93	218.45	25.092	
16,500.00	7,870.00	7,832.00	7,832.00	131.33	135.71	-90.00	-1,435.65	4,317.61	5,571.40	5,352.92	218.48	25.501	
16,600.00	7,870.00	7,832.00	7,832.00	133.01	135.71	-90.00	-1,435.65	4,317.61	5,661.75	5,443.25	218.50	25.912	
16,700.00	7,870.00	7,832.00	7,832.00	134.69	135.71	-90.00	-1,435.65	4,317.61	5,752.43	5,533.91	218.52	26.325	
16,800.00	7,870.00	7,832.00	7,832.00	136.37	135.71	-90.00	-1,435.65	4,317.61	5,843.40	5,624.87	218.53	26.739	
16,900.00	7,870.00	7,832.00	7,832.00	138.06	135.71	-90.00	-1,435.65	4,317.61	5,934.67	5,716.12	218.55	27.155	
17,000.00	7,870.00	7,832.00	7,832.00	139.74	135.71	-90.00	-1,435.65	4,317.61	6,026.22	5,807.66	218.56	27.572	
17,100.00	7,870.00	7,832.00	7,832.00	141.43	135.71	-90.00	-1,435.65	4,317.61	6,118.03	5,899.46	218.57	27.991	
17,200.00	7,870.00	7,832.00	7,832.00	143.12	135.71	-90.00	-1,435.65	4,317.61	6,210.09	5,991.51	218.58	28.412	
17,300.00	7,870.00	7,832.00	7,832.00	144.81	135.71	-90.00	-1,435.65	4,317.61	6,302.39	6,083.81	218.58	28.833	
17,400.00	7,870.00	7,832.00	7,832.00	146.50	135.71	-90.00	-1,435.65	4,317.61	6,394.93	6,176.34	218.59	29.256	
17,500.00	7,870.00	7,832.00	7,832.00	148.19	135.71	-90.00	-1,435.65	4,317.61	6,487.69	6,269.10	218.59	29.680	
17,600.00	7,870.00	7,832.00	7,832.00	149.89	135.71	-90.00	-1,435.65	4,317.61	6,580.66	6,362.07	218.59	30.105	
17,700.00	7,870.00	7,832.00	7,832.00	151.59	135.71	-90.00	-1,435.65	4,317.61	6,673.83	6,455.24	218.59	30.531	
17,800.00	7,870.00	7,832.00	7,832.00	153.29	135.71	-90.00	-1,435.65	4,317.61	6,767.20	6,548.60	218.60	30.958	
17,900.00	7,870.00	7,832.00	7,832.00	154.99	135.71	-90.00	-1,435.65	4,317.61	6,860.75	6,642.16	218.60	31.386	
18,000.00	7,870.00	7,832.00	7,832.00	156.69	135.71	-90.00	-1,435.65	4,317.61	6,954.49	6,735.89	218.60	31.814	
18,100.00	7,870.00	7,832.00	7,832.00	158.39	135.71	-90.00	-1,435.65	4,317.61	7,048.39	6,829.80	218.59	32.244	
18,200.00	7,870.00	7,832.00	7,832.00	160.09	135.71	-90.00	-1,435.65	4,317.61	7,142.47	6,923.87	218.59	32.675	
18,300.00	7,870.00	7,832.00	7,832.00	161.80	135.71	-90.00	-1,435.65	4,317.61	7,236.70	7,018.10	218.59	33.106	
18,400.00	7,870.00	7,832.00	7,832.00	163.51	135.71	-90.00	-1,435.65	4,317.61	7,331.08	7,112.49	218.59	33.538	
18,455.45	7,870.00	7,832.00	7,832.00	164.45	135.71	-90.00	-1,435.65	4,317.61	7,383.48	7,164.89	218.59	33.778	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	123.62	-3,056.68	4,597.93	5,521.46				
100.00	100.00	53.00	53.00	0.13	0.41	123.62	-3,056.68	4,597.93	5,521.26	5,520.71	0.54	N/A	
200.00	200.00	153.00	153.00	0.49	1.69	123.62	-3,056.68	4,597.93	5,521.26	5,519.07	2.19	2,525.886	
300.00	300.00	253.00	253.00	0.85	3.44	123.62	-3,056.68	4,597.93	5,521.26	5,516.97	4.29	1,287.105	
400.00	400.00	353.00	353.00	1.21	5.18	123.62	-3,056.68	4,597.93	5,521.26	5,514.86	6.39	863.577	
500.00	500.00	453.00	453.00	1.57	6.93	123.62	-3,056.68	4,597.93	5,521.26	5,512.76	8.50	649.768	
600.00	600.00	553.00	553.00	1.93	8.67	123.62	-3,056.68	4,597.93	5,521.26	5,510.65	10.60	520.820	
700.00	700.00	653.00	653.00	2.29	10.42	123.62	-3,056.68	4,597.93	5,521.26	5,508.55	12.70	434.578	
800.00	800.00	753.00	753.00	2.64	12.16	123.62	-3,056.68	4,597.93	5,521.26	5,506.45	14.81	372.839	
900.00	900.00	853.00	853.00	3.00	13.91	123.62	-3,056.68	4,597.93	5,521.26	5,504.34	16.91	326.461	
1,000.00	1,000.00	953.00	953.00	3.36	15.66	123.62	-3,056.68	4,597.93	5,521.26	5,502.24	19.02	290.344	
1,100.00	1,100.00	1,053.00	1,053.00	3.72	17.40	123.62	-3,056.68	4,597.93	5,521.26	5,500.14	21.12	261.422	
1,200.00	1,200.00	1,153.00	1,153.00	4.08	19.15	123.62	-3,056.68	4,597.93	5,521.26	5,498.03	23.22	237.740	
1,300.00	1,300.00	1,253.00	1,253.00	4.44	20.89	123.62	-3,056.68	4,597.93	5,521.26	5,495.93	25.33	217.993	
1,400.00	1,399.98	1,352.98	1,352.98	4.79	22.64	80.70	-3,056.68	4,597.93	5,520.97	5,493.54	27.43	201.286	
1,500.00	1,499.84	1,452.84	1,452.84	5.15	24.38	80.77	-3,056.68	4,597.93	5,520.13	5,490.60	29.53	186.962	
1,600.00	1,599.45	1,552.45	1,552.45	5.51	26.12	80.88	-3,056.68	4,597.93	5,518.73	5,487.11	31.62	174.528	
1,700.00	1,698.70	1,651.70	1,651.70	5.87	27.85	81.04	-3,056.68	4,597.93	5,516.81	5,483.09	33.72	163.625	
1,800.00	1,797.47	1,750.47	1,750.47	6.24	29.57	81.25	-3,056.68	4,597.93	5,514.37	5,478.56	35.81	153.976	
1,900.00	1,895.62	1,848.62	1,848.62	6.63	31.29	81.50	-3,056.68	4,597.93	5,511.46	5,473.54	37.91	145.367	
2,000.00	1,993.06	1,946.06	1,946.06	7.04	32.99	81.79	-3,056.68	4,597.93	5,508.10	5,468.08	40.02	137.625	
2,100.00	2,089.64	2,042.64	2,042.64	7.48	34.67	82.13	-3,056.68	4,597.93	5,504.36	5,462.22	42.14	130.618	
2,200.00	2,185.27	2,138.27	2,138.27	7.94	36.34	82.50	-3,056.68	4,597.93	5,500.27	5,456.00	44.27	124.235	
2,300.00	2,279.82	2,232.82	2,232.82	8.45	37.99	82.90	-3,056.68	4,597.93	5,495.90	5,449.48	46.42	118.389	
2,400.00	2,373.17	2,326.17	2,326.17	8.99	39.62	83.34	-3,056.68	4,597.93	5,491.31	5,442.71	48.59	113.010	
2,500.00	2,465.21	2,418.21	2,418.21	9.58	41.23	83.81	-3,056.68	4,597.93	5,486.56	5,435.78	50.78	108.040	
2,574.08	2,532.50	2,485.50	2,485.50	10.04	42.40	84.17	-3,056.68	4,597.93	5,482.99	5,430.57	52.42	104.595	
2,600.00	2,555.89	2,508.89	2,508.89	10.21	42.81	84.28	-3,056.68	4,597.93	5,481.75	5,428.75	53.00	103.434	
2,700.00	2,646.16	2,600.84	2,599.16	10.88	44.42	84.68	-3,056.68	4,597.93	5,477.17	5,421.90	55.27	99.101	
2,800.00	2,736.44	2,689.44	2,689.44	11.57	45.96	85.09	-3,056.68	4,597.93	5,472.92	5,415.41	57.50	95.175	
2,900.00	2,826.71	2,779.71	2,779.71	12.27	47.54	85.49	-3,056.68	4,597.93	5,469.01	5,409.22	59.79	91.476	
3,000.00	2,916.98	2,869.98	2,869.98	13.00	49.11	85.90	-3,056.68	4,597.93	5,465.43	5,403.34	62.09	88.031	
3,100.00	3,007.25	2,960.25	2,960.25	13.73	50.69	86.30	-3,056.68	4,597.93	5,462.19	5,397.79	64.40	84.821	
3,200.00	3,097.52	3,050.52	3,050.52	14.48	52.26	86.71	-3,056.68	4,597.93	5,459.29	5,392.57	66.72	81.824	
3,300.00	3,187.80	3,140.80	3,140.80	15.23	53.84	87.12	-3,056.68	4,597.93	5,456.72	5,387.67	69.05	79.023	
3,400.00	3,278.07	3,231.07	3,231.07	15.99	55.42	87.53	-3,056.68	4,597.93	5,454.50	5,383.10	71.39	76.401	
3,500.00	3,368.34	3,321.34	3,321.34	16.76	56.99	87.93	-3,056.68	4,597.93	5,452.61	5,378.87	73.74	73.943	
3,600.00	3,458.61	3,411.61	3,411.61	17.54	58.57	88.34	-3,056.68	4,597.93	5,451.06	5,374.96	76.09	71.636	
3,700.00	3,548.89	3,501.89	3,501.89	18.32	60.14	88.75	-3,056.68	4,597.93	5,449.85	5,371.40	78.45	69.466	
3,800.00	3,639.16	3,607.84	3,592.16	19.10	61.99	89.16	-3,056.68	4,597.93	5,448.98	5,367.89	81.09	67.197	
3,900.00	3,729.43	3,682.43	3,682.43	19.89	63.29	89.57	-3,056.68	4,597.93	5,448.45	5,365.27	83.18	65.500	
4,000.00	3,819.70	3,772.70	3,772.70	20.69	64.87	89.97	-3,056.68	4,597.93	5,448.26	5,362.70	85.55	63.684	
4,006.32	3,825.41	3,778.41	3,778.41	20.74	64.97	90.00	-3,056.68	4,597.93	5,448.26	5,362.55	85.70	63.572	
4,100.00	3,909.98	3,862.98	3,862.98	21.48	66.44	90.38	-3,056.68	4,597.93	5,448.40	5,360.48	87.92	61.967	
4,200.00	4,000.25	3,953.25	3,953.25	22.28	68.02	90.79	-3,056.68	4,597.93	5,448.89	5,358.59	90.30	60.343	
4,300.00	4,090.52	4,043.52	4,043.52	23.08	69.60	91.20	-3,056.68	4,597.93	5,449.72	5,357.05	92.67	58.805	
4,400.00	4,180.79	4,133.79	4,133.79	23.88	71.17	91.61	-3,056.68	4,597.93	5,450.89	5,355.84	95.05	57.346	
4,500.00	4,271.06	4,224.06	4,224.06	24.69	72.75	92.02	-3,056.68	4,597.93	5,452.39	5,354.96	97.43	55.962	
4,600.00	4,361.34	4,314.34	4,314.34	25.49	74.32	92.42	-3,056.68	4,597.93	5,454.24	5,354.43	99.81	54.647	
4,700.00	4,451.61	4,404.61	4,404.61	26.30	75.90	92.83	-3,056.68	4,597.93	5,456.42	5,354.23	102.19	53.395	
4,800.00	4,541.88	4,505.12	4,494.88	27.11	77.65	93.24	-3,056.68	4,597.93	5,458.95	5,354.20	104.75	52.115	
4,900.00	4,632.15	4,585.15	4,585.15	27.92	79.05	93.65	-3,056.68	4,597.93	5,461.80	5,354.86	106.95	51.070	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,675.43	4,675.43	28.74	80.62	94.05	-3,056.68	4,597.93	5,465.00	5,355.67	109.33	49.987	
5,100.00	4,812.70	4,765.70	4,765.70	29.55	82.20	94.46	-3,056.68	4,597.93	5,468.54	5,356.83	111.71	48.955	
5,200.00	4,902.97	4,855.97	4,855.97	30.37	83.78	94.86	-3,056.68	4,597.93	5,472.41	5,358.32	114.08	47.968	
5,300.00	4,993.24	4,946.24	4,946.24	31.18	85.35	95.27	-3,056.68	4,597.93	5,476.61	5,360.15	116.46	47.025	
5,400.00	5,083.51	5,036.51	5,036.51	32.00	86.93	95.67	-3,056.68	4,597.93	5,481.15	5,362.31	118.84	46.123	
5,500.00	5,173.79	5,126.79	5,126.79	32.82	88.50	96.08	-3,056.68	4,597.93	5,486.02	5,364.81	121.21	45.260	
5,600.00	5,264.06	5,217.06	5,217.06	33.63	90.08	96.48	-3,056.68	4,597.93	5,491.23	5,367.64	123.59	44.432	
5,700.00	5,354.33	5,307.33	5,307.33	34.45	91.65	96.88	-3,056.68	4,597.93	5,496.77	5,370.81	125.96	43.640	
5,800.00	5,444.60	5,402.40	5,397.60	35.27	93.31	97.29	-3,056.68	4,597.93	5,502.63	5,374.22	128.41	42.852	
5,900.00	5,534.88	5,487.88	5,487.88	36.09	94.80	97.69	-3,056.68	4,597.93	5,508.83	5,378.14	130.70	42.150	
6,000.00	5,625.15	5,578.15	5,578.15	36.91	96.38	98.09	-3,056.68	4,597.93	5,515.36	5,382.30	133.06	41.449	
6,100.00	5,715.42	5,668.42	5,668.42	37.74	97.96	98.49	-3,056.68	4,597.93	5,522.21	5,386.79	135.43	40.776	
6,200.00	5,805.69	5,758.69	5,758.69	38.56	99.53	98.89	-3,056.68	4,597.93	5,529.39	5,391.60	137.79	40.129	
6,300.00	5,895.96	5,848.96	5,848.96	39.38	101.11	99.29	-3,056.68	4,597.93	5,536.90	5,396.75	140.15	39.507	
6,400.00	5,986.24	5,939.24	5,939.24	40.20	102.68	99.68	-3,056.68	4,597.93	5,544.73	5,402.22	142.51	38.909	
6,500.00	6,076.51	6,029.51	6,029.51	41.03	104.26	100.08	-3,056.68	4,597.93	5,552.88	5,408.02	144.86	38.332	
6,600.00	6,166.78	6,119.78	6,119.78	41.85	105.83	100.47	-3,056.68	4,597.93	5,561.35	5,414.14	147.21	37.778	
6,700.00	6,257.05	6,210.05	6,210.05	42.67	107.41	100.87	-3,056.68	4,597.93	5,570.14	5,420.58	149.56	37.243	
6,800.00	6,347.33	6,300.33	6,300.33	43.50	108.98	101.26	-3,056.68	4,597.93	5,579.25	5,427.34	151.91	36.728	
6,900.00	6,437.60	6,409.40	6,390.60	44.32	110.89	101.66	-3,056.68	4,597.93	5,588.68	5,434.10	154.58	36.154	
7,000.00	6,527.87	6,480.87	6,480.87	45.15	112.14	102.05	-3,056.68	4,597.93	5,598.42	5,441.83	156.59	35.751	
7,100.00	6,618.14	6,571.14	6,571.14	45.98	113.71	102.44	-3,056.68	4,597.93	5,608.47	5,449.54	158.93	35.289	
7,200.00	6,708.41	6,661.41	6,661.41	46.80	115.29	102.83	-3,056.68	4,597.93	5,618.84	5,457.57	161.27	34.842	
7,300.00	6,798.69	6,751.69	6,751.69	47.63	116.86	103.21	-3,056.68	4,597.93	5,629.51	5,465.92	163.60	34.411	
7,400.00	6,888.96	6,841.96	6,841.96	48.45	118.44	103.60	-3,056.68	4,597.93	5,640.50	5,474.57	165.92	33.994	
7,500.00	6,979.23	6,932.23	6,932.23	49.28	120.01	103.98	-3,056.68	4,597.93	5,651.79	5,483.54	168.25	33.592	
7,600.00	7,069.50	7,022.50	7,022.50	50.11	121.59	104.37	-3,056.68	4,597.93	5,663.38	5,492.81	170.57	33.203	
7,692.09	7,152.63	7,105.63	7,105.63	50.87	123.04	104.72	-3,056.68	4,597.93	5,674.32	5,501.62	172.70	32.856	
7,700.00	7,159.79	7,112.79	7,112.79	50.93	123.16	103.58	-3,056.68	4,597.93	5,675.23	5,502.34	172.89	32.826	
7,750.00	7,205.70	7,158.70	7,158.70	51.32	123.97	94.88	-3,056.68	4,597.93	5,678.79	5,504.75	174.04	32.629	
7,800.00	7,252.52	7,205.52	7,205.52	51.66	124.78	83.29	-3,056.68	4,597.93	5,678.62	5,503.43	175.19	32.415	
7,850.00	7,299.89	7,252.89	7,252.89	51.96	125.61	69.00	-3,056.68	4,597.93	5,674.68	5,498.37	176.30	32.187	
7,900.00	7,347.44	7,300.44	7,300.44	52.20	126.44	53.40	-3,056.68	4,597.93	5,666.99	5,489.60	177.39	31.947	
7,950.00	7,394.83	7,347.83	7,347.83	52.39	127.27	38.59	-3,056.68	4,597.93	5,655.59	5,477.16	178.43	31.696	
8,000.00	7,441.68	7,405.32	7,394.68	52.53	128.27	26.01	-3,056.68	4,597.93	5,640.56	5,460.95	179.61	31.404	
8,050.00	7,487.65	7,440.65	7,440.65	52.62	128.89	15.86	-3,056.68	4,597.93	5,622.01	5,441.64	180.37	31.170	
8,100.00	7,532.37	7,485.37	7,485.37	52.67	129.67	7.68	-3,056.68	4,597.93	5,600.05	5,418.80	181.25	30.897	
8,150.00	7,575.52	7,528.52	7,528.52	52.67	130.42	0.86	-3,056.68	4,597.93	5,574.87	5,392.80	182.07	30.620	
8,200.00	7,616.76	7,569.76	7,569.76	52.63	131.14	-5.12	-3,056.68	4,597.93	5,546.63	5,363.81	182.82	30.339	
8,250.00	7,655.77	7,608.77	7,608.77	52.55	131.82	-10.66	-3,056.68	4,597.93	5,515.57	5,332.07	183.50	30.057	
8,300.00	7,692.27	7,645.27	7,645.27	52.44	132.46	-16.10	-3,056.68	4,597.93	5,481.93	5,297.82	184.11	29.776	
8,350.00	7,725.97	7,678.97	7,678.97	52.29	133.05	-21.70	-3,056.68	4,597.93	5,445.96	5,261.32	184.63	29.496	
8,400.00	7,756.62	7,709.62	7,709.62	52.12	133.58	-27.70	-3,056.68	4,597.93	5,407.95	5,222.87	185.08	29.220	
8,450.00	7,783.98	7,736.98	7,736.98	51.92	134.06	-34.32	-3,056.68	4,597.93	5,368.20	5,182.76	185.43	28.949	
8,500.00	7,807.85	7,760.85	7,760.85	51.70	134.48	-41.70	-3,056.68	4,597.93	5,327.04	5,141.33	185.71	28.685	
8,550.00	7,828.05	7,781.05	7,781.05	51.45	134.83	-49.90	-3,056.68	4,597.93	5,284.79	5,098.90	185.90	28.429	
8,600.00	7,844.41	7,802.59	7,797.41	51.20	135.20	-58.79	-3,056.68	4,597.93	5,241.80	5,055.72	186.09	28.169	
8,650.00	7,856.82	7,809.82	7,809.82	50.93	135.33	-68.06	-3,056.68	4,597.93	5,198.43	5,012.42	186.01	27.947	
8,700.00	7,865.18	7,818.18	7,818.18	50.65	135.48	-77.24	-3,056.68	4,597.93	5,155.01	4,969.07	185.93	27.725	
8,750.00	7,869.43	7,822.43	7,822.43	50.36	135.55	-85.85	-3,056.68	4,597.93	5,111.90	4,926.13	185.78	27.516	
8,776.25	7,870.00	7,823.00	7,823.00	50.21	135.56	-90.00	-3,056.68	4,597.93	5,089.52	4,903.86	185.66	27.413	
8,800.00	7,870.00	7,823.00	7,823.00	50.08	135.56	-90.00	-3,056.68	4,597.93	5,069.38	4,883.84	185.55	27.321	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,823.00	7,823.00	49.53	135.56	-90.00	-3,056.68	4,597.93	4,984.93	4,799.87	185.06	26.937	
9,000.00	7,870.00	7,823.00	7,823.00	49.01	135.56	-90.00	-3,056.68	4,597.93	4,901.07	4,716.50	184.57	26.554	
9,100.00	7,870.00	7,823.00	7,823.00	48.52	135.56	-90.00	-3,056.68	4,597.93	4,817.83	4,633.75	184.08	26.173	
9,200.00	7,870.00	7,823.00	7,823.00	48.06	135.56	-90.00	-3,056.68	4,597.93	4,735.23	4,551.65	183.58	25.793	
9,300.00	7,870.00	7,823.00	7,823.00	47.63	135.56	-90.00	-3,056.68	4,597.93	4,653.32	4,470.22	183.09	25.415	
9,400.00	7,870.00	7,823.00	7,823.00	47.22	135.56	-90.00	-3,056.68	4,597.93	4,572.12	4,389.52	182.60	25.039	
9,500.00	7,870.00	7,823.00	7,823.00	46.83	135.56	-90.00	-3,056.68	4,597.93	4,491.69	4,309.57	182.12	24.664	
9,600.00	7,870.00	7,823.00	7,823.00	46.48	135.56	-90.00	-3,056.68	4,597.93	4,412.05	4,230.41	181.64	24.290	
9,700.00	7,870.00	7,823.00	7,823.00	46.14	135.56	-90.00	-3,056.68	4,597.93	4,333.26	4,152.08	181.18	23.917	
9,800.00	7,870.00	7,823.00	7,823.00	45.83	135.56	-90.00	-3,056.68	4,597.93	4,255.36	4,074.63	180.73	23.546	
9,900.00	7,870.00	7,823.00	7,823.00	45.54	135.56	-90.00	-3,056.68	4,597.93	4,178.40	3,998.11	180.30	23.175	
10,000.00	7,870.00	7,823.00	7,823.00	45.27	135.56	-90.00	-3,056.68	4,597.93	4,102.44	3,922.55	179.89	22.806	
10,100.00	7,870.00	7,823.00	7,823.00	45.03	135.56	-90.00	-3,056.68	4,597.93	4,027.52	3,848.01	179.51	22.436	
10,200.00	7,870.00	7,823.00	7,823.00	44.82	135.56	-90.00	-3,056.68	4,597.93	3,953.72	3,774.55	179.17	22.067	
10,300.00	7,870.00	7,823.00	7,823.00	44.66	135.56	-90.00	-3,056.68	4,597.93	3,881.08	3,702.22	178.87	21.698	
10,400.00	7,870.00	7,823.00	7,823.00	44.56	135.56	-90.00	-3,056.68	4,597.93	3,809.69	3,631.08	178.61	21.329	
10,500.00	7,870.00	7,823.00	7,823.00	44.58	135.56	-90.00	-3,056.68	4,597.93	3,739.61	3,561.19	178.42	20.960	
10,600.00	7,870.00	7,823.00	7,823.00	44.82	135.56	-90.00	-3,056.68	4,597.93	3,670.92	3,492.63	178.29	20.589	
10,700.00	7,870.00	7,823.00	7,823.00	45.36	135.56	-90.00	-3,056.68	4,597.93	3,603.69	3,425.45	178.24	20.218	
10,800.00	7,870.00	7,823.00	7,823.00	46.15	135.56	-90.00	-3,056.68	4,597.93	3,538.01	3,359.74	178.27	19.846	
10,900.00	7,870.00	7,823.00	7,823.00	47.09	135.56	-90.00	-3,056.68	4,597.93	3,473.97	3,295.58	178.39	19.474	
11,000.00	7,870.00	7,823.00	7,823.00	48.13	135.56	-90.00	-3,056.68	4,597.93	3,411.66	3,233.04	178.62	19.100	
11,100.00	7,870.00	7,823.00	7,823.00	49.22	135.56	-90.00	-3,056.68	4,597.93	3,351.18	3,172.22	178.96	18.726	
11,200.00	7,870.00	7,823.00	7,823.00	50.37	135.56	-90.00	-3,056.68	4,597.93	3,292.62	3,113.20	179.42	18.351	
11,300.00	7,870.00	7,823.00	7,823.00	51.55	135.56	-90.00	-3,056.68	4,597.93	3,236.09	3,056.08	180.01	17.978	
11,400.00	7,870.00	7,823.00	7,823.00	52.76	135.56	-90.00	-3,056.68	4,597.93	3,181.70	3,000.98	180.72	17.605	
11,500.00	7,870.00	7,823.00	7,823.00	54.00	135.56	-90.00	-3,056.68	4,597.93	3,129.56	2,947.98	181.58	17.235	
11,600.00	7,870.00	7,823.00	7,823.00	55.27	135.56	-90.00	-3,056.68	4,597.93	3,079.79	2,897.22	182.58	16.869	
11,700.00	7,870.00	7,823.00	7,823.00	56.56	135.56	-90.00	-3,056.68	4,597.93	3,032.50	2,848.79	183.71	16.507	
11,800.00	7,870.00	7,823.00	7,823.00	57.88	135.56	-90.00	-3,056.68	4,597.93	2,987.81	2,802.83	184.98	16.152	
11,900.00	7,870.00	7,823.00	7,823.00	59.21	135.56	-90.00	-3,056.68	4,597.93	2,945.84	2,759.45	186.39	15.805	
12,000.00	7,870.00	7,823.00	7,823.00	60.57	135.56	-90.00	-3,056.68	4,597.93	2,906.70	2,718.78	187.92	15.467	
12,100.00	7,870.00	7,823.00	7,823.00	61.94	135.56	-90.00	-3,056.68	4,597.93	2,870.51	2,680.94	189.58	15.142	
12,200.00	7,870.00	7,823.00	7,823.00	63.33	135.56	-90.00	-3,056.68	4,597.93	2,837.39	2,646.05	191.34	14.829	
12,300.00	7,870.00	7,823.00	7,823.00	64.74	135.56	-90.00	-3,056.68	4,597.93	2,807.44	2,614.24	193.20	14.531	
12,400.00	7,870.00	7,823.00	7,823.00	66.16	135.56	-90.00	-3,056.68	4,597.93	2,780.77	2,585.62	195.15	14.250	
12,500.00	7,870.00	7,823.00	7,823.00	67.59	135.56	-90.00	-3,056.68	4,597.93	2,757.47	2,560.30	197.16	13.986	
12,600.00	7,870.00	7,823.00	7,823.00	69.04	135.56	-90.00	-3,056.68	4,597.93	2,737.62	2,538.39	199.23	13.741	
12,700.00	7,870.00	7,823.00	7,823.00	70.51	135.56	-90.00	-3,056.68	4,597.93	2,721.31	2,519.97	201.34	13.516	
12,800.00	7,870.00	7,823.00	7,823.00	71.98	135.56	-90.00	-3,056.68	4,597.93	2,708.59	2,505.12	203.47	13.312	
12,900.00	7,870.00	7,823.00	7,823.00	73.47	135.56	-90.00	-3,056.68	4,597.93	2,699.52	2,493.91	205.61	13.129	
13,000.00	7,870.00	7,823.00	7,823.00	74.96	135.56	-90.00	-3,056.68	4,597.93	2,694.13	2,486.39	207.74	12.969	
13,095.27	7,870.00	7,823.00	7,823.00	76.40	135.56	-90.00	-3,056.68	4,597.93	2,692.45	2,482.70	209.74	12.837	CC
13,100.00	7,870.00	7,823.00	7,823.00	76.47	135.56	-90.00	-3,056.68	4,597.93	2,692.45	2,482.61	209.84	12.831	
13,200.00	7,870.00	7,823.00	7,823.00	77.99	135.56	-90.00	-3,056.68	4,597.93	2,694.49	2,482.58	211.91	12.715	ES
13,300.00	7,870.00	7,823.00	7,823.00	79.51	135.56	-90.00	-3,056.68	4,597.93	2,700.22	2,486.31	213.92	12.623	
13,400.00	7,870.00	7,823.00	7,823.00	81.05	135.56	-90.00	-3,056.68	4,597.93	2,709.64	2,493.78	215.86	12.553	
13,500.00	7,870.00	7,823.00	7,823.00	82.59	135.56	-90.00	-3,056.68	4,597.93	2,722.70	2,504.97	217.73	12.505	
13,600.00	7,870.00	7,823.00	7,823.00	84.14	135.56	-90.00	-3,056.68	4,597.93	2,739.35	2,519.83	219.52	12.479	
13,700.00	7,870.00	7,823.00	7,823.00	85.70	135.56	-90.00	-3,056.68	4,597.93	2,759.53	2,538.31	221.22	12.474	SF
13,800.00	7,870.00	7,823.00	7,823.00	87.26	135.56	-90.00	-3,056.68	4,597.93	2,783.15	2,560.33	222.82	12.491	
13,900.00	7,870.00	7,823.00	7,823.00	88.83	135.56	-90.00	-3,056.68	4,597.93	2,810.14	2,585.81	224.32	12.527	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,823.00	7,823.00	90.41	135.56	-90.00	-3,056.68	4,597.93	2,840.39	2,614.66	225.73	12.583	
14,100.00	7,870.00	7,823.00	7,823.00	92.00	135.56	-90.00	-3,056.68	4,597.93	2,873.81	2,646.78	227.03	12.658	
14,200.00	7,870.00	7,823.00	7,823.00	93.59	135.56	-90.00	-3,056.68	4,597.93	2,910.28	2,682.05	228.23	12.752	
14,300.00	7,870.00	7,823.00	7,823.00	95.18	135.56	-90.00	-3,056.68	4,597.93	2,949.69	2,720.36	229.33	12.862	
14,400.00	7,870.00	7,823.00	7,823.00	96.79	135.56	-90.00	-3,056.68	4,597.93	2,991.92	2,761.59	230.33	12.990	
14,500.00	7,870.00	7,823.00	7,823.00	98.39	135.56	-90.00	-3,056.68	4,597.93	3,036.86	2,805.62	231.24	13.133	
14,600.00	7,870.00	7,823.00	7,823.00	100.00	135.56	-90.00	-3,056.68	4,597.93	3,084.40	2,852.33	232.07	13.291	
14,700.00	7,870.00	7,823.00	7,823.00	101.62	135.56	-90.00	-3,056.68	4,597.93	3,134.40	2,901.59	232.81	13.464	
14,800.00	7,870.00	7,823.00	7,823.00	103.24	135.56	-90.00	-3,056.68	4,597.93	3,186.75	2,953.29	233.47	13.650	
14,900.00	7,870.00	7,823.00	7,823.00	104.87	135.56	-90.00	-3,056.68	4,597.93	3,241.35	3,007.30	234.05	13.849	
15,000.00	7,870.00	7,823.00	7,823.00	106.50	135.56	-90.00	-3,056.68	4,597.93	3,298.07	3,063.51	234.56	14.060	
15,100.00	7,870.00	7,823.00	7,823.00	108.13	135.56	-90.00	-3,056.68	4,597.93	3,356.82	3,121.80	235.01	14.283	
15,200.00	7,870.00	7,823.00	7,823.00	109.77	135.56	-90.00	-3,056.68	4,597.93	3,417.48	3,182.08	235.40	14.517	
15,300.00	7,870.00	7,823.00	7,823.00	111.41	135.56	-90.00	-3,056.68	4,597.93	3,479.96	3,244.22	235.74	14.762	
15,400.00	7,870.00	7,823.00	7,823.00	113.05	135.56	-90.00	-3,056.68	4,597.93	3,544.16	3,308.14	236.02	15.016	
15,500.00	7,870.00	7,823.00	7,823.00	114.70	135.56	-90.00	-3,056.68	4,597.93	3,609.99	3,373.73	236.26	15.280	
15,600.00	7,870.00	7,823.00	7,823.00	116.35	135.56	-90.00	-3,056.68	4,597.93	3,677.36	3,440.90	236.46	15.552	
15,700.00	7,870.00	7,823.00	7,823.00	118.00	135.56	-90.00	-3,056.68	4,597.93	3,746.18	3,509.57	236.62	15.832	
15,800.00	7,870.00	7,823.00	7,823.00	119.66	135.56	-90.00	-3,056.68	4,597.93	3,816.39	3,579.65	236.74	16.121	
15,900.00	7,870.00	7,823.00	7,823.00	121.32	135.56	-90.00	-3,056.68	4,597.93	3,887.90	3,651.07	236.83	16.416	
16,000.00	7,870.00	7,823.00	7,823.00	122.98	135.56	-90.00	-3,056.68	4,597.93	3,960.65	3,723.75	236.90	16.719	
16,100.00	7,870.00	7,823.00	7,823.00	124.65	135.56	-90.00	-3,056.68	4,597.93	4,034.56	3,797.63	236.93	17.028	
16,200.00	7,870.00	7,823.00	7,823.00	126.32	135.56	-90.00	-3,056.68	4,597.93	4,109.58	3,872.63	236.95	17.344	
16,300.00	7,870.00	7,823.00	7,823.00	127.99	135.56	-90.00	-3,056.68	4,597.93	4,185.64	3,948.69	236.94	17.665	
16,400.00	7,870.00	7,823.00	7,823.00	129.66	135.56	-90.00	-3,056.68	4,597.93	4,262.69	4,025.77	236.92	17.992	
16,500.00	7,870.00	7,823.00	7,823.00	131.33	135.56	-90.00	-3,056.68	4,597.93	4,340.68	4,103.79	236.88	18.324	
16,600.00	7,870.00	7,823.00	7,823.00	133.01	135.56	-90.00	-3,056.68	4,597.93	4,419.55	4,182.72	236.83	18.661	
16,700.00	7,870.00	7,823.00	7,823.00	134.69	135.56	-90.00	-3,056.68	4,597.93	4,499.26	4,262.50	236.76	19.003	
16,800.00	7,870.00	7,823.00	7,823.00	136.37	135.56	-90.00	-3,056.68	4,597.93	4,579.77	4,343.08	236.69	19.349	
16,900.00	7,870.00	7,823.00	7,823.00	138.06	135.56	-90.00	-3,056.68	4,597.93	4,661.04	4,424.43	236.60	19.700	
17,000.00	7,870.00	7,823.00	7,823.00	139.74	135.56	-90.00	-3,056.68	4,597.93	4,743.02	4,506.51	236.51	20.054	
17,100.00	7,870.00	7,823.00	7,823.00	141.43	135.56	-90.00	-3,056.68	4,597.93	4,825.68	4,589.27	236.41	20.413	
17,200.00	7,870.00	7,823.00	7,823.00	143.12	135.56	-90.00	-3,056.68	4,597.93	4,908.98	4,672.68	236.30	20.775	
17,300.00	7,870.00	7,823.00	7,823.00	144.81	135.56	-90.00	-3,056.68	4,597.93	4,992.90	4,756.71	236.18	21.140	
17,400.00	7,870.00	7,823.00	7,823.00	146.50	135.56	-90.00	-3,056.68	4,597.93	5,077.40	4,841.33	236.07	21.508	
17,500.00	7,870.00	7,823.00	7,823.00	148.19	135.56	-90.00	-3,056.68	4,597.93	5,162.45	4,926.51	235.94	21.880	
17,600.00	7,870.00	7,823.00	7,823.00	149.89	135.56	-90.00	-3,056.68	4,597.93	5,248.04	5,012.22	235.82	22.255	
17,700.00	7,870.00	7,823.00	7,823.00	151.59	135.56	-90.00	-3,056.68	4,597.93	5,334.12	5,098.43	235.69	22.632	
17,800.00	7,870.00	7,823.00	7,823.00	153.29	135.56	-90.00	-3,056.68	4,597.93	5,420.68	5,185.12	235.56	23.012	
17,900.00	7,870.00	7,823.00	7,823.00	154.99	135.56	-90.00	-3,056.68	4,597.93	5,507.70	5,272.27	235.43	23.394	
18,000.00	7,870.00	7,823.00	7,823.00	156.69	135.56	-90.00	-3,056.68	4,597.93	5,595.15	5,359.85	235.30	23.779	
18,100.00	7,870.00	7,823.00	7,823.00	158.39	135.56	-90.00	-3,056.68	4,597.93	5,683.01	5,447.84	235.17	24.166	
18,200.00	7,870.00	7,823.00	7,823.00	160.09	135.56	-90.00	-3,056.68	4,597.93	5,771.27	5,536.24	235.03	24.555	
18,300.00	7,870.00	7,823.00	7,823.00	161.80	135.56	-90.00	-3,056.68	4,597.93	5,859.91	5,625.01	234.90	24.946	
18,400.00	7,870.00	7,823.00	7,823.00	163.51	135.56	-90.00	-3,056.68	4,597.93	5,948.90	5,714.14	234.77	25.340	
18,455.45	7,870.00	7,823.00	7,823.00	164.45	135.56	-90.00	-3,056.68	4,597.93	5,998.40	5,763.71	234.69	25.559	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	104.92	-1,581.03	5,933.35	6,140.63				
100.00	100.00	45.00	45.00	0.13	0.35	104.92	-1,581.03	5,933.35	6,140.39	6,139.91	0.48	N/A	
200.00	200.00	145.00	145.00	0.49	1.55	104.92	-1,581.03	5,933.35	6,140.39	6,138.34	2.05	3,000.811	
300.00	300.00	245.00	245.00	0.85	3.30	104.92	-1,581.03	5,933.35	6,140.39	6,136.24	4.15	1,479.596	
400.00	400.00	345.00	345.00	1.21	5.04	104.92	-1,581.03	5,933.35	6,140.39	6,134.13	6.25	981.858	
500.00	500.00	445.00	445.00	1.57	6.79	104.92	-1,581.03	5,933.35	6,140.39	6,132.03	8.36	734.703	
600.00	600.00	545.00	545.00	1.93	8.53	104.92	-1,581.03	5,933.35	6,140.39	6,129.92	10.46	586.954	
700.00	700.00	645.00	645.00	2.29	10.28	104.92	-1,581.03	5,933.35	6,140.39	6,127.82	12.57	488.680	
800.00	800.00	745.00	745.00	2.64	12.03	104.92	-1,581.03	5,933.35	6,140.39	6,125.72	14.67	418.595	
900.00	900.00	845.00	845.00	3.00	13.77	104.92	-1,581.03	5,933.35	6,140.39	6,123.61	16.77	366.091	
1,000.00	1,000.00	945.00	945.00	3.36	15.52	104.92	-1,581.03	5,933.35	6,140.39	6,121.51	18.88	325.290	
1,100.00	1,100.00	1,045.00	1,045.00	3.72	17.26	104.92	-1,581.03	5,933.35	6,140.39	6,119.41	20.98	292.672	
1,200.00	1,200.00	1,145.00	1,145.00	4.08	19.01	104.92	-1,581.03	5,933.35	6,140.39	6,117.30	23.08	265.999	
1,300.00	1,300.00	1,245.00	1,245.00	4.44	20.75	104.92	-1,581.03	5,933.35	6,140.39	6,115.20	25.19	243.782	
1,400.00	1,399.98	1,344.98	1,344.98	4.79	22.50	62.01	-1,581.03	5,933.35	6,139.57	6,112.28	27.29	224.986	
1,500.00	1,499.84	1,444.84	1,444.84	5.15	24.24	62.09	-1,581.03	5,933.35	6,137.11	6,107.73	29.39	208.850	
1,600.00	1,599.45	1,544.45	1,544.45	5.51	25.98	62.24	-1,581.03	5,933.35	6,133.03	6,101.55	31.48	194.825	
1,700.00	1,698.70	1,643.70	1,643.70	5.87	27.71	62.44	-1,581.03	5,933.35	6,127.34	6,093.76	33.57	182.512	
1,800.00	1,797.47	1,742.47	1,742.47	6.24	29.43	62.70	-1,581.03	5,933.35	6,120.06	6,084.39	35.66	171.602	
1,900.00	1,895.62	1,840.62	1,840.62	6.63	31.15	63.01	-1,581.03	5,933.35	6,111.22	6,073.47	37.76	161.855	
2,000.00	1,993.06	1,938.06	1,938.06	7.04	32.85	63.38	-1,581.03	5,933.35	6,100.87	6,061.01	39.85	153.081	
2,100.00	2,089.64	2,034.64	2,034.64	7.48	34.53	63.81	-1,581.03	5,933.35	6,089.04	6,047.08	41.96	145.128	
2,200.00	2,185.27	2,130.27	2,130.27	7.94	36.20	64.29	-1,581.03	5,933.35	6,075.77	6,031.71	44.07	137.876	
2,300.00	2,279.82	2,224.82	2,224.82	8.45	37.85	64.82	-1,581.03	5,933.35	6,061.14	6,014.95	46.19	131.225	
2,400.00	2,373.17	2,318.17	2,318.17	8.99	39.48	65.40	-1,581.03	5,933.35	6,045.19	5,996.86	48.32	125.095	
2,500.00	2,465.21	2,410.21	2,410.21	9.58	41.09	66.04	-1,581.03	5,933.35	6,027.99	5,977.51	50.48	119.421	
2,574.08	2,532.50	2,477.50	2,477.50	10.04	42.26	66.54	-1,581.03	5,933.35	6,014.49	5,962.41	52.08	115.479	
2,600.00	2,555.89	2,500.89	2,500.89	10.21	42.67	66.63	-1,581.03	5,933.35	6,009.67	5,957.02	52.65	114.149	
2,700.00	2,646.16	2,608.84	2,591.16	10.88	44.56	66.97	-1,581.03	5,933.35	5,991.22	5,936.07	55.15	108.634	
2,800.00	2,736.44	2,681.44	2,681.44	11.57	45.82	67.32	-1,581.03	5,933.35	5,973.02	5,915.96	57.06	104.681	
2,900.00	2,826.71	2,771.71	2,771.71	12.27	47.40	67.67	-1,581.03	5,933.35	5,955.07	5,895.78	59.30	100.430	
3,000.00	2,916.98	2,861.98	2,861.98	13.00	48.97	68.03	-1,581.03	5,933.35	5,937.39	5,875.84	61.55	96.464	
3,100.00	3,007.25	2,952.25	2,952.25	13.73	50.55	68.38	-1,581.03	5,933.35	5,919.96	5,856.14	63.82	92.761	
3,200.00	3,097.52	3,042.52	3,042.52	14.48	52.12	68.73	-1,581.03	5,933.35	5,902.80	5,836.69	66.10	89.298	
3,300.00	3,187.80	3,132.80	3,132.80	15.23	53.70	69.09	-1,581.03	5,933.35	5,885.90	5,817.50	68.40	86.055	
3,400.00	3,278.07	3,223.07	3,223.07	15.99	55.28	69.45	-1,581.03	5,933.35	5,869.26	5,798.56	70.70	83.014	
3,500.00	3,368.34	3,313.34	3,313.34	16.76	56.85	69.81	-1,581.03	5,933.35	5,852.90	5,779.88	73.02	80.158	
3,600.00	3,458.61	3,403.61	3,403.61	17.54	58.43	70.17	-1,581.03	5,933.35	5,836.81	5,761.47	75.34	77.472	
3,700.00	3,548.89	3,506.11	3,493.89	18.32	60.22	70.54	-1,581.03	5,933.35	5,820.99	5,743.10	77.89	74.737	
3,800.00	3,639.16	3,584.16	3,584.16	19.10	61.58	70.90	-1,581.03	5,933.35	5,805.44	5,725.43	80.01	72.557	
3,900.00	3,729.43	3,674.43	3,674.43	19.89	63.15	71.27	-1,581.03	5,933.35	5,790.18	5,707.82	82.36	70.305	
4,000.00	3,819.70	3,764.70	3,764.70	20.69	64.73	71.64	-1,581.03	5,933.35	5,775.19	5,690.48	84.71	68.176	
4,100.00	3,909.98	3,854.98	3,854.98	21.48	66.30	72.01	-1,581.03	5,933.35	5,760.49	5,673.42	87.07	66.160	
4,200.00	4,000.25	3,945.25	3,945.25	22.28	67.88	72.38	-1,581.03	5,933.35	5,746.07	5,656.64	89.43	64.251	
4,300.00	4,090.52	4,035.52	4,035.52	23.08	69.46	72.76	-1,581.03	5,933.35	5,731.94	5,640.14	91.80	62.439	
4,400.00	4,180.79	4,125.79	4,125.79	23.88	71.03	73.13	-1,581.03	5,933.35	5,718.09	5,623.92	94.17	60.718	
4,500.00	4,271.06	4,216.06	4,216.06	24.69	72.61	73.51	-1,581.03	5,933.35	5,704.54	5,607.99	96.55	59.082	
4,600.00	4,361.34	4,306.34	4,306.34	25.49	74.18	73.89	-1,581.03	5,933.35	5,691.28	5,592.35	98.93	57.526	
4,700.00	4,451.61	4,403.39	4,396.61	26.30	75.88	74.27	-1,581.03	5,933.35	5,678.32	5,576.88	101.44	55.978	
4,800.00	4,541.88	4,486.88	4,486.88	27.11	77.33	74.65	-1,581.03	5,933.35	5,665.65	5,561.94	103.71	54.629	
4,900.00	4,632.15	4,577.15	4,577.15	27.92	78.91	75.03	-1,581.03	5,933.35	5,653.28	5,547.18	106.10	53.281	
5,000.00	4,722.43	4,667.43	4,667.43	28.74	80.48	75.41	-1,581.03	5,933.35	5,641.21	5,532.71	108.50	51.993	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,757.70	4,757.70	29.55	82.06	75.80	-1,581.03	5,933.35	5,629.45	5,518.55	110.90	50.761	
5,200.00	4,902.97	4,847.97	4,847.97	30.37	83.64	76.19	-1,581.03	5,933.35	5,617.99	5,504.69	113.30	49.584	
5,300.00	4,993.24	4,938.24	4,938.24	31.18	85.21	76.57	-1,581.03	5,933.35	5,606.84	5,491.13	115.71	48.457	
5,400.00	5,083.51	5,028.51	5,028.51	32.00	86.79	76.96	-1,581.03	5,933.35	5,595.99	5,477.88	118.12	47.377	
5,500.00	5,173.79	5,118.79	5,118.79	32.82	88.36	77.35	-1,581.03	5,933.35	5,585.46	5,464.93	120.53	46.342	
5,600.00	5,264.06	5,209.06	5,209.06	33.63	89.94	77.74	-1,581.03	5,933.35	5,575.24	5,452.30	122.94	45.350	
5,700.00	5,354.33	5,300.67	5,299.33	34.45	91.54	78.14	-1,581.03	5,933.35	5,565.33	5,439.95	125.38	44.389	
5,800.00	5,444.60	5,389.60	5,389.60	35.27	93.09	78.53	-1,581.03	5,933.35	5,555.74	5,427.97	127.77	43.483	
5,900.00	5,534.88	5,479.88	5,479.88	36.09	94.66	78.93	-1,581.03	5,933.35	5,546.46	5,416.27	130.19	42.604	
6,000.00	5,625.15	5,570.15	5,570.15	36.91	96.24	79.32	-1,581.03	5,933.35	5,537.50	5,404.90	132.61	41.759	
6,100.00	5,715.42	5,660.42	5,660.42	37.74	97.82	79.72	-1,581.03	5,933.35	5,528.87	5,393.84	135.03	40.946	
6,200.00	5,805.69	5,750.69	5,750.69	38.56	99.39	80.12	-1,581.03	5,933.35	5,520.55	5,383.10	137.45	40.164	
6,300.00	5,895.96	5,840.96	5,840.96	39.38	100.97	80.51	-1,581.03	5,933.35	5,512.56	5,372.69	139.87	39.411	
6,400.00	5,986.24	5,931.24	5,931.24	40.20	102.54	80.91	-1,581.03	5,933.35	5,504.89	5,362.60	142.30	38.686	
6,500.00	6,076.51	6,021.51	6,021.51	41.03	104.12	81.32	-1,581.03	5,933.35	5,497.55	5,352.83	144.72	37.987	
6,600.00	6,166.78	6,111.78	6,111.78	41.85	105.69	81.72	-1,581.03	5,933.35	5,490.54	5,343.39	147.15	37.313	
6,700.00	6,257.05	6,202.05	6,202.05	42.67	107.27	82.12	-1,581.03	5,933.35	5,483.85	5,334.28	149.57	36.663	
6,800.00	6,347.33	6,307.67	6,292.33	43.50	109.11	82.52	-1,581.03	5,933.35	5,477.50	5,325.23	152.27	35.973	
6,900.00	6,437.60	6,382.60	6,382.60	44.32	110.42	82.93	-1,581.03	5,933.35	5,471.47	5,317.05	154.43	35.431	
7,000.00	6,527.87	6,472.87	6,472.87	45.15	112.00	83.33	-1,581.03	5,933.35	5,465.78	5,308.93	156.85	34.846	
7,100.00	6,618.14	6,563.14	6,563.14	45.98	113.57	83.74	-1,581.03	5,933.35	5,460.42	5,301.14	159.28	34.282	
7,200.00	6,708.41	6,653.41	6,653.41	46.80	115.15	84.14	-1,581.03	5,933.35	5,455.40	5,293.69	161.71	33.736	
7,300.00	6,798.69	6,743.69	6,743.69	47.63	116.72	84.55	-1,581.03	5,933.35	5,450.71	5,286.57	164.13	33.209	
7,400.00	6,888.96	6,833.96	6,833.96	48.45	118.30	84.96	-1,581.03	5,933.35	5,446.35	5,279.79	166.56	32.699	
7,500.00	6,979.23	6,924.23	6,924.23	49.28	119.87	85.36	-1,581.03	5,933.35	5,442.33	5,273.35	168.99	32.206	
7,600.00	7,069.50	7,014.50	7,014.50	50.11	121.45	85.77	-1,581.03	5,933.35	5,438.65	5,267.24	171.41	31.729	
7,692.09	7,152.63	7,102.37	7,097.63	50.87	122.98	86.15	-1,581.03	5,933.35	5,435.56	5,261.84	173.73	31.288	
7,700.00	7,159.79	7,104.79	7,104.79	50.93	123.02	84.94	-1,581.03	5,933.35	5,435.27	5,261.44	173.83	31.267	
7,750.00	7,205.70	7,150.70	7,150.70	51.32	123.83	75.81	-1,581.03	5,933.35	5,431.81	5,256.78	175.03	31.034	
7,800.00	7,252.52	7,202.48	7,197.52	51.66	124.73	63.76	-1,581.03	5,933.35	5,425.52	5,249.24	176.28	30.778	
7,850.00	7,299.89	7,244.89	7,244.89	51.96	125.47	48.95	-1,581.03	5,933.35	5,416.41	5,239.10	177.31	30.547	
7,900.00	7,347.44	7,307.56	7,292.44	52.20	126.56	32.77	-1,581.03	5,933.35	5,404.54	5,225.90	178.64	30.254	
7,950.00	7,394.83	7,339.83	7,339.83	52.39	127.13	17.32	-1,581.03	5,933.35	5,389.97	5,210.59	179.38	30.047	
8,000.00	7,441.68	7,386.68	7,386.68	52.53	127.94	4.04	-1,581.03	5,933.35	5,372.81	5,192.49	180.32	29.795	
8,050.00	7,487.65	7,432.65	7,432.65	52.62	128.75	-6.87	-1,581.03	5,933.35	5,353.18	5,171.98	181.19	29.544	
8,100.00	7,532.37	7,477.37	7,477.37	52.67	129.53	-15.85	-1,581.03	5,933.35	5,331.22	5,149.23	181.99	29.294	
8,150.00	7,575.52	7,520.52	7,520.52	52.67	130.28	-23.49	-1,581.03	5,933.35	5,307.13	5,124.41	182.71	29.046	
8,200.00	7,616.76	7,561.76	7,561.76	52.63	131.00	-30.26	-1,581.03	5,933.35	5,281.08	5,097.73	183.35	28.803	
8,250.00	7,655.77	7,600.77	7,600.77	52.55	131.68	-36.49	-1,581.03	5,933.35	5,253.31	5,069.40	183.91	28.565	
8,300.00	7,692.27	7,637.27	7,637.27	52.44	132.32	-42.42	-1,581.03	5,933.35	5,224.05	5,039.67	184.38	28.334	
8,350.00	7,725.97	7,670.97	7,670.97	52.29	132.91	-48.19	-1,581.03	5,933.35	5,193.55	5,008.80	184.75	28.111	
8,400.00	7,756.62	7,701.62	7,701.62	52.12	133.44	-53.87	-1,581.03	5,933.35	5,162.09	4,977.05	185.04	27.898	
8,450.00	7,783.98	7,728.98	7,728.98	51.92	133.92	-59.46	-1,581.03	5,933.35	5,129.94	4,944.72	185.23	27.695	
8,500.00	7,807.85	7,752.85	7,752.85	51.70	134.34	-64.93	-1,581.03	5,933.35	5,097.40	4,912.08	185.32	27.505	
8,550.00	7,828.05	7,773.05	7,773.05	51.45	134.69	-70.24	-1,581.03	5,933.35	5,064.76	4,879.43	185.33	27.329	
8,600.00	7,844.41	7,789.41	7,789.41	51.20	134.97	-75.28	-1,581.03	5,933.35	5,032.31	4,847.07	185.24	27.166	
8,650.00	7,856.82	7,801.82	7,801.82	50.93	135.19	-80.00	-1,581.03	5,933.35	5,000.34	4,815.28	185.06	27.020	
8,700.00	7,865.18	7,810.18	7,810.18	50.65	135.34	-84.31	-1,581.03	5,933.35	4,969.14	4,784.34	184.80	26.890	
8,750.00	7,869.43	7,814.43	7,814.43	50.36	135.41	-88.17	-1,581.03	5,933.35	4,938.98	4,754.53	184.45	26.777	
8,776.25	7,870.00	7,815.00	7,815.00	50.21	135.42	-90.00	-1,581.03	5,933.35	4,923.65	4,739.42	184.23	26.725	
8,800.00	7,870.00	7,815.00	7,815.00	50.08	135.42	-90.00	-1,581.03	5,933.35	4,910.00	4,725.97	184.03	26.681	
8,900.00	7,870.00	7,815.00	7,815.00	49.53	135.42	-90.00	-1,581.03	5,933.35	4,853.36	4,670.18	183.18	26.495	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,815.00	7,815.00	49.01	135.42	-90.00	-1,581.03	5,933.35	4,798.13	4,615.78	182.35	26.313	
9,100.00	7,870.00	7,815.00	7,815.00	48.52	135.42	-90.00	-1,581.03	5,933.35	4,744.37	4,562.83	181.55	26.133	
9,200.00	7,870.00	7,815.00	7,815.00	48.06	135.42	-90.00	-1,581.03	5,933.35	4,692.13	4,511.35	180.77	25.956	
9,300.00	7,870.00	7,815.00	7,815.00	47.63	135.42	-90.00	-1,581.03	5,933.35	4,641.45	4,461.40	180.04	25.780	
9,400.00	7,870.00	7,815.00	7,815.00	47.22	135.42	-90.00	-1,581.03	5,933.35	4,592.39	4,413.03	179.36	25.605	
9,500.00	7,870.00	7,815.00	7,815.00	46.83	135.42	-90.00	-1,581.03	5,933.35	4,545.00	4,366.27	178.73	25.430	
9,600.00	7,870.00	7,815.00	7,815.00	46.48	135.42	-90.00	-1,581.03	5,933.35	4,499.33	4,321.17	178.16	25.255	
9,700.00	7,870.00	7,815.00	7,815.00	46.14	135.42	-90.00	-1,581.03	5,933.35	4,455.44	4,277.78	177.66	25.078	
9,800.00	7,870.00	7,815.00	7,815.00	45.83	135.42	-90.00	-1,581.03	5,933.35	4,413.38	4,236.13	177.25	24.900	
9,900.00	7,870.00	7,815.00	7,815.00	45.54	135.42	-90.00	-1,581.03	5,933.35	4,373.20	4,196.28	176.92	24.718	
10,000.00	7,870.00	7,815.00	7,815.00	45.27	135.42	-90.00	-1,581.03	5,933.35	4,334.96	4,158.26	176.70	24.533	
10,100.00	7,870.00	7,815.00	7,815.00	45.03	135.42	-90.00	-1,581.03	5,933.35	4,298.71	4,122.13	176.58	24.345	
10,200.00	7,870.00	7,815.00	7,815.00	44.82	135.42	-90.00	-1,581.03	5,933.35	4,264.49	4,087.92	176.57	24.152	
10,300.00	7,870.00	7,815.00	7,815.00	44.66	135.42	-90.00	-1,581.03	5,933.35	4,232.36	4,055.67	176.68	23.955	
10,400.00	7,870.00	7,815.00	7,815.00	44.56	135.42	-90.00	-1,581.03	5,933.35	4,202.36	4,025.44	176.92	23.753	
10,500.00	7,870.00	7,815.00	7,815.00	44.58	135.42	-90.00	-1,581.03	5,933.35	4,174.54	3,997.26	177.28	23.548	
10,600.00	7,870.00	7,815.00	7,815.00	44.82	135.42	-90.00	-1,581.03	5,933.35	4,148.95	3,971.19	177.76	23.340	
10,700.00	7,870.00	7,815.00	7,815.00	45.36	135.42	-90.00	-1,581.03	5,933.35	4,125.62	3,947.25	178.37	23.129	
10,800.00	7,870.00	7,815.00	7,815.00	46.15	135.42	-90.00	-1,581.03	5,933.35	4,104.60	3,925.50	179.10	22.917	
10,900.00	7,870.00	7,815.00	7,815.00	47.09	135.42	-90.00	-1,581.03	5,933.35	4,085.92	3,905.96	179.95	22.705	
11,000.00	7,870.00	7,815.00	7,815.00	48.13	135.42	-90.00	-1,581.03	5,933.35	4,069.61	3,888.69	180.91	22.495	
11,100.00	7,870.00	7,815.00	7,815.00	49.22	135.42	-90.00	-1,581.03	5,933.35	4,055.70	3,873.72	181.98	22.287	
11,200.00	7,870.00	7,815.00	7,815.00	50.37	135.42	-90.00	-1,581.03	5,933.35	4,044.21	3,861.08	183.14	22.083	
11,300.00	7,870.00	7,815.00	7,815.00	51.55	135.42	-90.00	-1,581.03	5,933.35	4,035.18	3,850.79	184.38	21.885	
11,400.00	7,870.00	7,815.00	7,815.00	52.76	135.42	-90.00	-1,581.03	5,933.35	4,028.60	3,842.90	185.71	21.694	
11,500.00	7,870.00	7,815.00	7,815.00	54.00	135.42	-90.00	-1,581.03	5,933.35	4,024.50	3,837.41	187.10	21.510	
11,600.00	7,870.00	7,815.00	7,815.00	55.27	135.42	-90.00	-1,581.03	5,933.35	4,022.88	3,834.34	188.55	21.336	
11,615.09	7,870.00	7,815.00	7,815.00	55.46	135.42	-90.00	-1,581.03	5,933.35	4,022.86	3,834.09	188.77	21.311	CC
11,700.00	7,870.00	7,815.00	7,815.00	56.56	135.42	-90.00	-1,581.03	5,933.35	4,023.75	3,833.71	190.04	21.173	ES
11,800.00	7,870.00	7,815.00	7,815.00	57.88	135.42	-90.00	-1,581.03	5,933.35	4,027.10	3,835.52	191.58	21.020	
11,900.00	7,870.00	7,815.00	7,815.00	59.21	135.42	-90.00	-1,581.03	5,933.35	4,032.93	3,839.78	193.15	20.880	
12,000.00	7,870.00	7,815.00	7,815.00	60.57	135.42	-90.00	-1,581.03	5,933.35	4,041.23	3,846.49	194.74	20.752	
12,100.00	7,870.00	7,815.00	7,815.00	61.94	135.42	-90.00	-1,581.03	5,933.35	4,051.97	3,855.64	196.34	20.638	
12,200.00	7,870.00	7,815.00	7,815.00	63.33	135.42	-90.00	-1,581.03	5,933.35	4,065.15	3,867.21	197.95	20.536	
12,300.00	7,870.00	7,815.00	7,815.00	64.74	135.42	-90.00	-1,581.03	5,933.35	4,080.74	3,881.19	199.56	20.449	
12,400.00	7,870.00	7,815.00	7,815.00	66.16	135.42	-90.00	-1,581.03	5,933.35	4,098.71	3,897.55	201.16	20.375	
12,500.00	7,870.00	7,815.00	7,815.00	67.59	135.42	-90.00	-1,581.03	5,933.35	4,119.03	3,916.28	202.75	20.316	
12,600.00	7,870.00	7,815.00	7,815.00	69.04	135.42	-90.00	-1,581.03	5,933.35	4,141.67	3,937.35	204.32	20.271	
12,700.00	7,870.00	7,815.00	7,815.00	70.51	135.42	-90.00	-1,581.03	5,933.35	4,166.58	3,960.71	205.87	20.239	
12,800.00	7,870.00	7,815.00	7,815.00	71.98	135.42	-90.00	-1,581.03	5,933.35	4,193.73	3,986.34	207.39	20.221	
12,900.00	7,870.00	7,815.00	7,815.00	73.47	135.42	-90.00	-1,581.03	5,933.35	4,223.07	4,014.19	208.88	20.217	SF
13,000.00	7,870.00	7,815.00	7,815.00	74.96	135.42	-90.00	-1,581.03	5,933.35	4,254.57	4,044.22	210.34	20.227	
13,100.00	7,870.00	7,815.00	7,815.00	76.47	135.42	-90.00	-1,581.03	5,933.35	4,288.16	4,076.39	211.77	20.249	
13,200.00	7,870.00	7,815.00	7,815.00	77.99	135.42	-90.00	-1,581.03	5,933.35	4,323.81	4,110.65	213.15	20.285	
13,300.00	7,870.00	7,815.00	7,815.00	79.51	135.42	-90.00	-1,581.03	5,933.35	4,361.45	4,146.95	214.50	20.333	
13,400.00	7,870.00	7,815.00	7,815.00	81.05	135.42	-90.00	-1,581.03	5,933.35	4,401.05	4,185.24	215.81	20.393	
13,500.00	7,870.00	7,815.00	7,815.00	82.59	135.42	-90.00	-1,581.03	5,933.35	4,442.55	4,225.48	217.07	20.466	
13,600.00	7,870.00	7,815.00	7,815.00	84.14	135.42	-90.00	-1,581.03	5,933.35	4,485.89	4,267.60	218.29	20.550	
13,700.00	7,870.00	7,815.00	7,815.00	85.70	135.42	-90.00	-1,581.03	5,933.35	4,531.03	4,311.55	219.47	20.645	
13,800.00	7,870.00	7,815.00	7,815.00	87.26	135.42	-90.00	-1,581.03	5,933.35	4,577.90	4,357.29	220.61	20.751	
13,900.00	7,870.00	7,815.00	7,815.00	88.83	135.42	-90.00	-1,581.03	5,933.35	4,626.46	4,404.76	221.71	20.867	
14,000.00	7,870.00	7,815.00	7,815.00	90.41	135.42	-90.00	-1,581.03	5,933.35	4,676.66	4,453.90	222.76	20.994	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,815.00	7,815.00	92.00	135.42	-90.00	-1,581.03	5,933.35	4,728.44	4,504.67	223.77	21.131	
14,200.00	7,870.00	7,815.00	7,815.00	93.59	135.42	-90.00	-1,581.03	5,933.35	4,781.75	4,557.01	224.74	21.277	
14,300.00	7,870.00	7,815.00	7,815.00	95.18	135.42	-90.00	-1,581.03	5,933.35	4,836.54	4,610.86	225.67	21.432	
14,400.00	7,870.00	7,815.00	7,815.00	96.79	135.42	-90.00	-1,581.03	5,933.35	4,892.76	4,666.19	226.56	21.595	
14,500.00	7,870.00	7,815.00	7,815.00	98.39	135.42	-90.00	-1,581.03	5,933.35	4,950.36	4,722.94	227.42	21.768	
14,600.00	7,870.00	7,815.00	7,815.00	100.00	135.42	-90.00	-1,581.03	5,933.35	5,009.29	4,781.06	228.23	21.948	
14,700.00	7,870.00	7,815.00	7,815.00	101.62	135.42	-90.00	-1,581.03	5,933.35	5,069.52	4,840.50	229.01	22.136	
14,800.00	7,870.00	7,815.00	7,815.00	103.24	135.42	-90.00	-1,581.03	5,933.35	5,130.98	4,901.22	229.76	22.332	
14,900.00	7,870.00	7,815.00	7,815.00	104.87	135.42	-90.00	-1,581.03	5,933.35	5,193.65	4,963.18	230.47	22.535	
15,000.00	7,870.00	7,815.00	7,815.00	106.50	135.42	-90.00	-1,581.03	5,933.35	5,257.47	5,026.32	231.15	22.745	
15,100.00	7,870.00	7,815.00	7,815.00	108.13	135.42	-90.00	-1,581.03	5,933.35	5,322.40	5,090.60	231.80	22.961	
15,200.00	7,870.00	7,815.00	7,815.00	109.77	135.42	-90.00	-1,581.03	5,933.35	5,388.41	5,155.99	232.42	23.184	
15,300.00	7,870.00	7,815.00	7,815.00	111.41	135.42	-90.00	-1,581.03	5,933.35	5,455.45	5,222.44	233.01	23.413	
15,400.00	7,870.00	7,815.00	7,815.00	113.05	135.42	-90.00	-1,581.03	5,933.35	5,523.48	5,289.91	233.57	23.648	
15,500.00	7,870.00	7,815.00	7,815.00	114.70	135.42	-90.00	-1,581.03	5,933.35	5,592.48	5,358.38	234.11	23.889	
15,600.00	7,870.00	7,815.00	7,815.00	116.35	135.42	-90.00	-1,581.03	5,933.35	5,662.41	5,427.79	234.62	24.135	
15,700.00	7,870.00	7,815.00	7,815.00	118.00	135.42	-90.00	-1,581.03	5,933.35	5,733.22	5,498.12	235.10	24.386	
15,800.00	7,870.00	7,815.00	7,815.00	119.66	135.42	-90.00	-1,581.03	5,933.35	5,804.90	5,569.33	235.57	24.642	
15,900.00	7,870.00	7,815.00	7,815.00	121.32	135.42	-90.00	-1,581.03	5,933.35	5,877.40	5,641.39	236.01	24.903	
16,000.00	7,870.00	7,815.00	7,815.00	122.98	135.42	-90.00	-1,581.03	5,933.35	5,950.70	5,714.27	236.43	25.169	
16,100.00	7,870.00	7,815.00	7,815.00	124.65	135.42	-90.00	-1,581.03	5,933.35	6,024.76	5,787.93	236.83	25.439	
16,200.00	7,870.00	7,815.00	7,815.00	126.32	135.42	-90.00	-1,581.03	5,933.35	6,099.57	5,862.36	237.21	25.714	
16,300.00	7,870.00	7,815.00	7,815.00	127.99	135.42	-90.00	-1,581.03	5,933.35	6,175.09	5,937.52	237.57	25.993	
16,400.00	7,870.00	7,815.00	7,815.00	129.66	135.42	-90.00	-1,581.03	5,933.35	6,251.30	6,013.38	237.92	26.275	
16,500.00	7,870.00	7,815.00	7,815.00	131.33	135.42	-90.00	-1,581.03	5,933.35	6,328.17	6,089.92	238.25	26.562	
16,600.00	7,870.00	7,815.00	7,815.00	133.01	135.42	-90.00	-1,581.03	5,933.35	6,405.67	6,167.12	238.56	26.852	
16,700.00	7,870.00	7,815.00	7,815.00	134.69	135.42	-90.00	-1,581.03	5,933.35	6,483.80	6,244.94	238.86	27.145	
16,800.00	7,870.00	7,815.00	7,815.00	136.37	135.42	-90.00	-1,581.03	5,933.35	6,562.52	6,323.38	239.14	27.442	
16,900.00	7,870.00	7,815.00	7,815.00	138.06	135.42	-90.00	-1,581.03	5,933.35	6,641.81	6,402.40	239.41	27.742	
17,000.00	7,870.00	7,815.00	7,815.00	139.74	135.42	-90.00	-1,581.03	5,933.35	6,721.65	6,481.98	239.67	28.045	
17,100.00	7,870.00	7,815.00	7,815.00	141.43	135.42	-90.00	-1,581.03	5,933.35	6,802.03	6,562.11	239.92	28.352	
17,200.00	7,870.00	7,815.00	7,815.00	143.12	135.42	-90.00	-1,581.03	5,933.35	6,882.92	6,642.77	240.15	28.661	
17,300.00	7,870.00	7,815.00	7,815.00	144.81	135.42	-90.00	-1,581.03	5,933.35	6,964.30	6,723.93	240.37	28.973	
17,400.00	7,870.00	7,815.00	7,815.00	146.50	135.42	-90.00	-1,581.03	5,933.35	7,046.17	6,805.58	240.59	29.288	
17,500.00	7,870.00	7,815.00	7,815.00	148.19	135.42	-90.00	-1,581.03	5,933.35	7,128.50	6,887.71	240.79	29.605	
17,600.00	7,870.00	7,815.00	7,815.00	149.89	135.42	-90.00	-1,581.03	5,933.35	7,211.27	6,970.29	240.98	29.925	
17,700.00	7,870.00	7,815.00	7,815.00	151.59	135.42	-90.00	-1,581.03	5,933.35	7,294.48	7,053.31	241.17	30.247	
17,800.00	7,870.00	7,815.00	7,815.00	153.29	135.42	-90.00	-1,581.03	5,933.35	7,378.11	7,136.76	241.34	30.571	
17,900.00	7,870.00	7,815.00	7,815.00	154.99	135.42	-90.00	-1,581.03	5,933.35	7,462.13	7,220.62	241.51	30.898	
18,000.00	7,870.00	7,815.00	7,815.00	156.69	135.42	-90.00	-1,581.03	5,933.35	7,546.55	7,304.88	241.67	31.227	
18,100.00	7,870.00	7,815.00	7,815.00	158.39	135.42	-90.00	-1,581.03	5,933.35	7,631.34	7,389.52	241.82	31.557	
18,200.00	7,870.00	7,815.00	7,815.00	160.09	135.42	-90.00	-1,581.03	5,933.35	7,716.50	7,474.53	241.97	31.890	
18,300.00	7,870.00	7,815.00	7,815.00	161.80	135.42	-90.00	-1,581.03	5,933.35	7,802.01	7,559.90	242.11	32.225	
18,400.00	7,870.00	7,815.00	7,815.00	163.51	135.42	-90.00	-1,581.03	5,933.35	7,887.86	7,645.62	242.24	32.562	
18,455.45	7,870.00	7,815.00	7,815.00	164.45	135.42	-90.00	-1,581.03	5,933.35	7,935.61	7,693.29	242.31	32.749	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	114.76	-2,507.17	5,436.52	5,986.99				
100.00	100.00	51.00	51.00	0.13	0.39	114.76	-2,507.17	5,436.52	5,986.79	5,986.26	0.53	N/A	
200.00	200.00	151.00	151.00	0.49	1.66	114.76	-2,507.17	5,436.52	5,986.79	5,984.64	2.15	2,783.307	
300.00	300.00	251.00	251.00	0.85	3.40	114.76	-2,507.17	5,436.52	5,986.79	5,982.53	4.25	1,407.079	
400.00	400.00	351.00	351.00	1.21	5.15	114.76	-2,507.17	5,436.52	5,986.79	5,980.43	6.36	941.531	
500.00	500.00	451.00	451.00	1.57	6.89	114.76	-2,507.17	5,436.52	5,986.79	5,978.33	8.46	707.460	
600.00	600.00	551.00	551.00	1.93	8.64	114.76	-2,507.17	5,436.52	5,986.79	5,976.22	10.57	566.600	
700.00	700.00	651.00	651.00	2.29	10.38	114.76	-2,507.17	5,436.52	5,986.79	5,974.12	12.67	472.518	
800.00	800.00	751.00	751.00	2.64	12.13	114.76	-2,507.17	5,436.52	5,986.79	5,972.01	14.77	405.231	
900.00	900.00	851.00	851.00	3.00	13.88	114.76	-2,507.17	5,436.52	5,986.79	5,969.91	16.88	354.719	
1,000.00	1,000.00	951.00	951.00	3.36	15.62	114.76	-2,507.17	5,436.52	5,986.79	5,967.81	18.98	315.403	
1,100.00	1,100.00	1,051.00	1,051.00	3.72	17.37	114.76	-2,507.17	5,436.52	5,986.79	5,965.70	21.09	283.934	
1,200.00	1,200.00	1,151.00	1,151.00	4.08	19.11	114.76	-2,507.17	5,436.52	5,986.79	5,963.60	23.19	258.174	
1,300.00	1,300.00	1,251.00	1,251.00	4.44	20.86	114.76	-2,507.17	5,436.52	5,986.79	5,961.50	25.29	236.700	
1,400.00	1,399.98	1,350.98	1,350.98	4.79	22.60	71.84	-2,507.17	5,436.52	5,986.24	5,958.85	27.39	218.528	
1,500.00	1,499.84	1,450.84	1,450.84	5.15	24.34	71.92	-2,507.17	5,436.52	5,984.61	5,955.12	29.49	202.936	
1,600.00	1,599.45	1,550.45	1,550.45	5.51	26.08	72.05	-2,507.17	5,436.52	5,981.91	5,950.32	31.59	189.390	
1,700.00	1,698.70	1,649.70	1,649.70	5.87	27.82	72.23	-2,507.17	5,436.52	5,978.15	5,944.47	33.68	177.502	
1,800.00	1,797.47	1,748.47	1,748.47	6.24	29.54	72.46	-2,507.17	5,436.52	5,973.35	5,937.57	35.77	166.974	
1,900.00	1,895.62	1,846.62	1,846.62	6.63	31.25	72.75	-2,507.17	5,436.52	5,967.55	5,929.67	37.87	157.571	
2,000.00	1,993.06	1,944.06	1,944.06	7.04	32.95	73.08	-2,507.17	5,436.52	5,960.78	5,920.80	39.98	149.110	
2,100.00	2,089.64	2,040.64	2,040.64	7.48	34.64	73.46	-2,507.17	5,436.52	5,953.09	5,911.00	42.09	141.443	
2,200.00	2,185.27	2,136.27	2,136.27	7.94	36.31	73.88	-2,507.17	5,436.52	5,944.52	5,900.31	44.21	134.453	
2,300.00	2,279.82	2,230.82	2,230.82	8.45	37.96	74.35	-2,507.17	5,436.52	5,935.14	5,888.79	46.35	128.045	
2,400.00	2,373.17	2,324.17	2,324.17	8.99	39.59	74.86	-2,507.17	5,436.52	5,925.00	5,876.49	48.51	122.142	
2,500.00	2,465.21	2,416.21	2,416.21	9.58	41.19	75.41	-2,507.17	5,436.52	5,914.17	5,863.49	50.69	116.680	
2,574.08	2,532.50	2,483.50	2,483.50	10.04	42.37	75.84	-2,507.17	5,436.52	5,905.75	5,853.44	52.31	112.889	
2,600.00	2,555.89	2,506.89	2,506.89	10.21	42.78	75.93	-2,507.17	5,436.52	5,902.76	5,849.87	52.89	111.611	
2,700.00	2,646.16	2,602.84	2,597.16	10.88	44.45	76.30	-2,507.17	5,436.52	5,891.40	5,836.19	55.21	106.704	
2,800.00	2,736.44	2,687.44	2,687.44	11.57	45.93	76.67	-2,507.17	5,436.52	5,880.33	5,822.97	57.36	102.511	
2,900.00	2,826.71	2,777.71	2,777.71	12.27	47.50	77.04	-2,507.17	5,436.52	5,869.56	5,809.93	59.63	98.430	
3,000.00	2,916.98	2,867.98	2,867.98	13.00	49.08	77.42	-2,507.17	5,436.52	5,859.08	5,797.17	61.92	94.627	
3,100.00	3,007.25	2,958.25	2,958.25	13.73	50.65	77.79	-2,507.17	5,436.52	5,848.91	5,784.69	64.22	91.079	
3,200.00	3,097.52	3,048.52	3,048.52	14.48	52.23	78.16	-2,507.17	5,436.52	5,839.03	5,772.50	66.53	87.765	
3,300.00	3,187.80	3,138.80	3,138.80	15.23	53.80	78.54	-2,507.17	5,436.52	5,829.45	5,760.59	68.85	84.664	
3,400.00	3,278.07	3,229.07	3,229.07	15.99	55.38	78.92	-2,507.17	5,436.52	5,820.17	5,748.98	71.19	81.759	
3,500.00	3,368.34	3,319.34	3,319.34	16.76	56.96	79.29	-2,507.17	5,436.52	5,811.20	5,737.67	73.53	79.033	
3,600.00	3,458.61	3,409.61	3,409.61	17.54	58.53	79.67	-2,507.17	5,436.52	5,802.53	5,726.65	75.88	76.472	
3,700.00	3,548.89	3,500.11	3,499.89	18.32	60.11	80.05	-2,507.17	5,436.52	5,794.17	5,715.93	78.24	74.059	
3,800.00	3,639.16	3,609.84	3,590.16	19.10	62.03	80.43	-2,507.17	5,436.52	5,786.12	5,705.18	80.94	71.488	
3,900.00	3,729.43	3,680.43	3,680.43	19.89	63.26	80.81	-2,507.17	5,436.52	5,778.37	5,695.41	82.96	69.651	
4,000.00	3,819.70	3,770.70	3,770.70	20.69	64.83	81.19	-2,507.17	5,436.52	5,770.94	5,685.61	85.33	67.628	
4,100.00	3,909.98	3,860.98	3,860.98	21.48	66.41	81.57	-2,507.17	5,436.52	5,763.82	5,676.11	87.71	65.715	
4,200.00	4,000.25	3,951.25	3,951.25	22.28	67.98	81.96	-2,507.17	5,436.52	5,757.01	5,666.92	90.09	63.904	
4,300.00	4,090.52	4,041.52	4,041.52	23.08	69.56	82.34	-2,507.17	5,436.52	5,750.51	5,658.04	92.47	62.187	
4,400.00	4,180.79	4,131.79	4,131.79	23.88	71.14	82.73	-2,507.17	5,436.52	5,744.33	5,649.47	94.86	60.557	
4,500.00	4,271.06	4,222.06	4,222.06	24.69	72.71	83.11	-2,507.17	5,436.52	5,738.47	5,641.22	97.25	59.009	
4,600.00	4,361.34	4,312.34	4,312.34	25.49	74.29	83.50	-2,507.17	5,436.52	5,732.92	5,633.28	99.64	57.537	
4,700.00	4,451.61	4,402.61	4,402.61	26.30	75.86	83.88	-2,507.17	5,436.52	5,727.69	5,625.66	102.03	56.136	
4,800.00	4,541.88	4,507.12	4,492.88	27.11	77.69	84.27	-2,507.17	5,436.52	5,722.78	5,618.10	104.68	54.671	
4,900.00	4,632.15	4,583.15	4,583.15	27.92	79.01	84.66	-2,507.17	5,436.52	5,718.18	5,611.36	106.82	53.529	
5,000.00	4,722.43	4,673.43	4,673.43	28.74	80.59	85.05	-2,507.17	5,436.52	5,713.91	5,604.69	109.22	52.314	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,763.70	4,763.70	29.55	82.16	85.44	-2,507.17	5,436.52	5,709.96	5,598.34	111.62	51.154	
5,200.00	4,902.97	4,853.97	4,853.97	30.37	83.74	85.82	-2,507.17	5,436.52	5,706.33	5,592.31	114.02	50.045	
5,300.00	4,993.24	4,944.24	4,944.24	31.18	85.32	86.21	-2,507.17	5,436.52	5,703.02	5,586.60	116.43	48.984	
5,400.00	5,083.51	5,034.51	5,034.51	32.00	86.89	86.60	-2,507.17	5,436.52	5,700.04	5,581.21	118.83	47.969	
5,500.00	5,173.79	5,124.79	5,124.79	32.82	88.47	86.99	-2,507.17	5,436.52	5,697.38	5,576.15	121.23	46.996	
5,600.00	5,264.06	5,215.06	5,215.06	33.63	90.04	87.38	-2,507.17	5,436.52	5,695.04	5,571.41	123.63	46.064	
5,700.00	5,354.33	5,305.33	5,305.33	34.45	91.62	87.77	-2,507.17	5,436.52	5,693.03	5,566.99	126.04	45.170	
5,800.00	5,444.60	5,404.40	5,395.60	35.27	93.35	88.16	-2,507.17	5,436.52	5,691.34	5,562.75	128.59	44.258	
5,900.00	5,534.88	5,485.88	5,485.88	36.09	94.77	88.56	-2,507.17	5,436.52	5,689.98	5,559.13	130.84	43.487	
6,000.00	5,625.15	5,576.15	5,576.15	36.91	96.34	88.95	-2,507.17	5,436.52	5,688.94	5,555.69	133.25	42.695	
6,100.00	5,715.42	5,666.42	5,666.42	37.74	97.92	89.34	-2,507.17	5,436.52	5,688.22	5,552.58	135.65	41.934	
6,200.00	5,805.69	5,756.69	5,756.69	38.56	99.50	89.73	-2,507.17	5,436.52	5,687.84	5,549.79	138.05	41.201	
6,269.26	5,868.22	5,819.22	5,819.22	39.13	100.59	90.00	-2,507.17	5,436.52	5,687.76	5,548.05	139.71	40.710	
6,300.00	5,895.96	5,846.96	5,846.96	39.38	101.07	90.12	-2,507.17	5,436.52	5,687.77	5,547.32	140.45	40.497	
6,400.00	5,986.24	5,937.24	5,937.24	40.20	102.65	90.51	-2,507.17	5,436.52	5,688.04	5,545.19	142.85	39.818	
6,500.00	6,076.51	6,027.51	6,027.51	41.03	104.22	90.90	-2,507.17	5,436.52	5,688.62	5,543.38	145.25	39.165	
6,600.00	6,166.78	6,117.78	6,117.78	41.85	105.80	91.29	-2,507.17	5,436.52	5,689.54	5,541.89	147.65	38.535	
6,700.00	6,257.05	6,208.05	6,208.05	42.67	107.37	91.68	-2,507.17	5,436.52	5,690.78	5,540.73	150.04	37.928	
6,800.00	6,347.33	6,301.67	6,298.33	43.50	109.01	92.08	-2,507.17	5,436.52	5,692.34	5,539.84	152.50	37.328	
6,900.00	6,437.60	6,388.60	6,388.60	44.32	110.52	92.47	-2,507.17	5,436.52	5,694.23	5,539.40	154.83	36.777	
7,000.00	6,527.87	6,478.87	6,478.87	45.15	112.10	92.86	-2,507.17	5,436.52	5,696.44	5,539.22	157.22	36.231	
7,100.00	6,618.14	6,569.14	6,569.14	45.98	113.68	93.25	-2,507.17	5,436.52	5,698.98	5,539.36	159.61	35.705	
7,200.00	6,708.41	6,659.41	6,659.41	46.80	115.25	93.64	-2,507.17	5,436.52	5,701.84	5,539.83	162.00	35.196	
7,300.00	6,798.69	6,749.69	6,749.69	47.63	116.83	94.03	-2,507.17	5,436.52	5,705.02	5,540.63	164.39	34.704	
7,400.00	6,888.96	6,839.96	6,839.96	48.45	118.40	94.42	-2,507.17	5,436.52	5,708.52	5,541.75	166.77	34.229	
7,500.00	6,979.23	6,930.23	6,930.23	49.28	119.98	94.80	-2,507.17	5,436.52	5,712.35	5,543.20	169.15	33.770	
7,600.00	7,069.50	7,020.50	7,020.50	50.11	121.55	95.19	-2,507.17	5,436.52	5,716.50	5,544.97	171.53	33.326	
7,692.09	7,152.63	7,103.63	7,103.63	50.87	123.00	95.55	-2,507.17	5,436.52	5,720.60	5,546.88	173.72	32.929	
7,700.00	7,159.79	7,110.79	7,110.79	50.93	123.13	94.38	-2,507.17	5,436.52	5,720.93	5,547.01	173.91	32.896	
7,750.00	7,205.70	7,156.70	7,156.70	51.32	123.93	85.51	-2,507.17	5,436.52	5,721.03	5,545.94	175.09	32.675	
7,800.00	7,252.52	7,203.52	7,203.52	51.66	124.75	73.73	-2,507.17	5,436.52	5,717.79	5,541.55	176.25	32.442	
7,850.00	7,299.89	7,250.89	7,250.89	51.96	125.57	59.21	-2,507.17	5,436.52	5,711.20	5,533.83	177.37	32.200	
7,900.00	7,347.44	7,301.56	7,298.44	52.20	126.46	43.33	-2,507.17	5,436.52	5,701.29	5,522.79	178.50	31.939	
7,950.00	7,394.83	7,345.83	7,345.83	52.39	127.23	28.21	-2,507.17	5,436.52	5,688.13	5,508.65	179.48	31.693	
8,000.00	7,441.68	7,407.32	7,392.68	52.53	128.30	15.26	-2,507.17	5,436.52	5,671.78	5,491.08	180.70	31.387	
8,050.00	7,487.65	7,438.65	7,438.65	52.62	128.85	4.70	-2,507.17	5,436.52	5,652.38	5,471.02	181.36	31.167	
8,100.00	7,532.37	7,483.37	7,483.37	52.67	129.63	-3.95	-2,507.17	5,436.52	5,630.06	5,447.86	182.20	30.900	
8,150.00	7,575.52	7,526.52	7,526.52	52.67	130.39	-11.27	-2,507.17	5,436.52	5,605.00	5,422.02	182.98	30.632	
8,200.00	7,616.76	7,567.76	7,567.76	52.63	131.10	-17.78	-2,507.17	5,436.52	5,577.38	5,393.71	183.68	30.365	
8,250.00	7,655.77	7,606.77	7,606.77	52.55	131.79	-23.86	-2,507.17	5,436.52	5,547.44	5,363.14	184.30	30.100	
8,300.00	7,692.27	7,643.27	7,643.27	52.44	132.42	-29.79	-2,507.17	5,436.52	5,515.40	5,330.56	184.84	29.839	
8,350.00	7,725.97	7,676.97	7,676.97	52.29	133.01	-35.77	-2,507.17	5,436.52	5,481.54	5,296.25	185.30	29.583	
8,400.00	7,756.62	7,707.62	7,707.62	52.12	133.55	-41.93	-2,507.17	5,436.52	5,446.13	5,260.47	185.66	29.333	
8,450.00	7,783.98	7,734.98	7,734.98	51.92	134.02	-48.34	-2,507.17	5,436.52	5,409.48	5,223.53	185.94	29.092	
8,500.00	7,807.85	7,758.85	7,758.85	51.70	134.44	-54.99	-2,507.17	5,436.52	5,371.87	5,185.74	186.13	28.861	
8,550.00	7,828.05	7,779.05	7,779.05	51.45	134.79	-61.79	-2,507.17	5,436.52	5,333.65	5,147.42	186.23	28.640	
8,600.00	7,844.41	7,804.59	7,795.41	51.20	135.24	-68.61	-2,507.17	5,436.52	5,295.12	5,108.72	186.40	28.408	
8,650.00	7,856.82	7,807.82	7,807.82	50.93	135.29	-75.24	-2,507.17	5,436.52	5,256.61	5,070.46	186.16	28.238	
8,700.00	7,865.18	7,816.18	7,816.18	50.65	135.44	-81.51	-2,507.17	5,436.52	5,218.46	5,032.47	185.99	28.058	
8,750.00	7,869.43	7,820.43	7,820.43	50.36	135.51	-87.24	-2,507.17	5,436.52	5,180.97	4,995.24	185.73	27.895	
8,776.25	7,870.00	7,821.00	7,821.00	50.21	135.52	-90.00	-2,507.17	5,436.52	5,161.66	4,976.09	185.57	27.816	
8,800.00	7,870.00	7,821.00	7,821.00	50.08	135.52	-90.00	-2,507.17	5,436.52	5,144.36	4,958.95	185.40	27.747	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,821.00	7,821.00	49.53	135.52	-90.00	-2,507.17	5,436.52	5,072.06	4,887.33	184.73	27.456	
9,000.00	7,870.00	7,821.00	7,821.00	49.01	135.52	-90.00	-2,507.17	5,436.52	5,000.72	4,816.66	184.06	27.169	
9,100.00	7,870.00	7,821.00	7,821.00	48.52	135.52	-90.00	-2,507.17	5,436.52	4,930.38	4,746.98	183.40	26.883	
9,200.00	7,870.00	7,821.00	7,821.00	48.06	135.52	-90.00	-2,507.17	5,436.52	4,861.08	4,678.33	182.75	26.600	
9,300.00	7,870.00	7,821.00	7,821.00	47.63	135.52	-90.00	-2,507.17	5,436.52	4,792.86	4,610.75	182.11	26.318	
9,400.00	7,870.00	7,821.00	7,821.00	47.22	135.52	-90.00	-2,507.17	5,436.52	4,725.77	4,544.28	181.50	26.038	
9,500.00	7,870.00	7,821.00	7,821.00	46.83	135.52	-90.00	-2,507.17	5,436.52	4,659.86	4,478.96	180.90	25.759	
9,600.00	7,870.00	7,821.00	7,821.00	46.48	135.52	-90.00	-2,507.17	5,436.52	4,595.19	4,414.85	180.34	25.480	
9,700.00	7,870.00	7,821.00	7,821.00	46.14	135.52	-90.00	-2,507.17	5,436.52	4,531.80	4,351.98	179.82	25.202	
9,800.00	7,870.00	7,821.00	7,821.00	45.83	135.52	-90.00	-2,507.17	5,436.52	4,469.74	4,290.41	179.33	24.924	
9,900.00	7,870.00	7,821.00	7,821.00	45.54	135.52	-90.00	-2,507.17	5,436.52	4,409.08	4,230.18	178.90	24.646	
10,000.00	7,870.00	7,821.00	7,821.00	45.27	135.52	-90.00	-2,507.17	5,436.52	4,349.88	4,171.35	178.52	24.366	
10,100.00	7,870.00	7,821.00	7,821.00	45.03	135.52	-90.00	-2,507.17	5,436.52	4,292.18	4,113.97	178.21	24.085	
10,200.00	7,870.00	7,821.00	7,821.00	44.82	135.52	-90.00	-2,507.17	5,436.52	4,236.07	4,058.09	177.97	23.802	
10,300.00	7,870.00	7,821.00	7,821.00	44.66	135.52	-90.00	-2,507.17	5,436.52	4,181.59	4,003.77	177.82	23.516	
10,400.00	7,870.00	7,821.00	7,821.00	44.56	135.52	-90.00	-2,507.17	5,436.52	4,128.81	3,951.06	177.75	23.228	
10,500.00	7,870.00	7,821.00	7,821.00	44.58	135.52	-90.00	-2,507.17	5,436.52	4,077.81	3,900.03	177.78	22.937	
10,600.00	7,870.00	7,821.00	7,821.00	44.82	135.52	-90.00	-2,507.17	5,436.52	4,028.64	3,850.72	177.92	22.643	
10,700.00	7,870.00	7,821.00	7,821.00	45.36	135.52	-90.00	-2,507.17	5,436.52	3,981.38	3,803.21	178.17	22.346	
10,800.00	7,870.00	7,821.00	7,821.00	46.15	135.52	-90.00	-2,507.17	5,436.52	3,936.09	3,757.56	178.53	22.047	
10,900.00	7,870.00	7,821.00	7,821.00	47.09	135.52	-90.00	-2,507.17	5,436.52	3,892.84	3,713.82	179.01	21.746	
11,000.00	7,870.00	7,821.00	7,821.00	48.13	135.52	-90.00	-2,507.17	5,436.52	3,851.70	3,672.08	179.62	21.444	
11,100.00	7,870.00	7,821.00	7,821.00	49.22	135.52	-90.00	-2,507.17	5,436.52	3,812.74	3,632.39	180.35	21.141	
11,200.00	7,870.00	7,821.00	7,821.00	50.37	135.52	-90.00	-2,507.17	5,436.52	3,776.04	3,594.83	181.20	20.839	
11,300.00	7,870.00	7,821.00	7,821.00	51.55	135.52	-90.00	-2,507.17	5,436.52	3,741.64	3,559.46	182.18	20.539	
11,400.00	7,870.00	7,821.00	7,821.00	52.76	135.52	-90.00	-2,507.17	5,436.52	3,709.62	3,526.36	183.26	20.242	
11,500.00	7,870.00	7,821.00	7,821.00	54.00	135.52	-90.00	-2,507.17	5,436.52	3,680.04	3,495.58	184.46	19.950	
11,600.00	7,870.00	7,821.00	7,821.00	55.27	135.52	-90.00	-2,507.17	5,436.52	3,652.96	3,467.19	185.77	19.664	
11,700.00	7,870.00	7,821.00	7,821.00	56.56	135.52	-90.00	-2,507.17	5,436.52	3,628.43	3,441.27	187.17	19.386	
11,800.00	7,870.00	7,821.00	7,821.00	57.88	135.52	-90.00	-2,507.17	5,436.52	3,606.51	3,417.86	188.66	19.117	
11,900.00	7,870.00	7,821.00	7,821.00	59.21	135.52	-90.00	-2,507.17	5,436.52	3,587.25	3,397.03	190.22	18.858	
12,000.00	7,870.00	7,821.00	7,821.00	60.57	135.52	-90.00	-2,507.17	5,436.52	3,570.68	3,378.83	191.86	18.611	
12,100.00	7,870.00	7,821.00	7,821.00	61.94	135.52	-90.00	-2,507.17	5,436.52	3,556.85	3,363.30	193.55	18.377	
12,200.00	7,870.00	7,821.00	7,821.00	63.33	135.52	-90.00	-2,507.17	5,436.52	3,545.79	3,350.50	195.29	18.156	
12,300.00	7,870.00	7,821.00	7,821.00	64.74	135.52	-90.00	-2,507.17	5,436.52	3,537.52	3,340.45	197.07	17.950	
12,400.00	7,870.00	7,821.00	7,821.00	66.16	135.52	-90.00	-2,507.17	5,436.52	3,532.06	3,333.18	198.88	17.760	
12,500.00	7,870.00	7,821.00	7,821.00	67.59	135.52	-90.00	-2,507.17	5,436.52	3,529.43	3,328.72	200.71	17.585	
12,542.91	7,870.00	7,821.00	7,821.00	68.22	135.52	-90.00	-2,507.17	5,436.52	3,529.17	3,327.68	201.49	17.515	CC
12,600.00	7,870.00	7,821.00	7,821.00	69.04	135.52	-90.00	-2,507.17	5,436.52	3,529.63	3,327.09	202.54	17.427	ES
12,700.00	7,870.00	7,821.00	7,821.00	70.51	135.52	-90.00	-2,507.17	5,436.52	3,532.66	3,328.29	204.37	17.285	
12,800.00	7,870.00	7,821.00	7,821.00	71.98	135.52	-90.00	-2,507.17	5,436.52	3,538.52	3,332.33	206.20	17.161	
12,900.00	7,870.00	7,821.00	7,821.00	73.47	135.52	-90.00	-2,507.17	5,436.52	3,547.19	3,339.19	208.00	17.054	
13,000.00	7,870.00	7,821.00	7,821.00	74.96	135.52	-90.00	-2,507.17	5,436.52	3,558.65	3,348.86	209.78	16.963	
13,100.00	7,870.00	7,821.00	7,821.00	76.47	135.52	-90.00	-2,507.17	5,436.52	3,572.87	3,361.33	211.53	16.890	
13,200.00	7,870.00	7,821.00	7,821.00	77.99	135.52	-90.00	-2,507.17	5,436.52	3,589.82	3,376.57	213.25	16.834	
13,300.00	7,870.00	7,821.00	7,821.00	79.51	135.52	-90.00	-2,507.17	5,436.52	3,609.46	3,394.55	214.92	16.795	
13,400.00	7,870.00	7,821.00	7,821.00	81.05	135.52	-90.00	-2,507.17	5,436.52	3,631.75	3,415.21	216.54	16.772	
13,500.00	7,870.00	7,821.00	7,821.00	82.59	135.52	-90.00	-2,507.17	5,436.52	3,656.65	3,438.53	218.11	16.765	SF
13,600.00	7,870.00	7,821.00	7,821.00	84.14	135.52	-90.00	-2,507.17	5,436.52	3,684.08	3,464.45	219.63	16.774	
13,700.00	7,870.00	7,821.00	7,821.00	85.70	135.52	-90.00	-2,507.17	5,436.52	3,714.01	3,492.92	221.09	16.798	
13,800.00	7,870.00	7,821.00	7,821.00	87.26	135.52	-90.00	-2,507.17	5,436.52	3,746.37	3,523.87	222.50	16.838	
13,900.00	7,870.00	7,821.00	7,821.00	88.83	135.52	-90.00	-2,507.17	5,436.52	3,781.10	3,557.26	223.84	16.892	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	7,821.00	7,821.00	90.41	135.52	-90.00	-2,507.17	5,436.52	3,818.13	3,593.01	225.13	16.960	
14,100.00	7,870.00	7,821.00	7,821.00	92.00	135.52	-90.00	-2,507.17	5,436.52	3,857.40	3,631.05	226.35	17.042	
14,200.00	7,870.00	7,821.00	7,821.00	93.59	135.52	-90.00	-2,507.17	5,436.52	3,898.84	3,671.33	227.52	17.136	
14,300.00	7,870.00	7,821.00	7,821.00	95.18	135.52	-90.00	-2,507.17	5,436.52	3,942.39	3,713.76	228.62	17.244	
14,400.00	7,870.00	7,821.00	7,821.00	96.79	135.52	-90.00	-2,507.17	5,436.52	3,987.96	3,758.29	229.67	17.364	
14,500.00	7,870.00	7,821.00	7,821.00	98.39	135.52	-90.00	-2,507.17	5,436.52	4,035.50	3,804.84	230.66	17.496	
14,600.00	7,870.00	7,821.00	7,821.00	100.00	135.52	-90.00	-2,507.17	5,436.52	4,084.93	3,853.34	231.59	17.639	
14,700.00	7,870.00	7,821.00	7,821.00	101.62	135.52	-90.00	-2,507.17	5,436.52	4,136.19	3,903.72	232.47	17.793	
14,800.00	7,870.00	7,821.00	7,821.00	103.24	135.52	-90.00	-2,507.17	5,436.52	4,189.21	3,955.92	233.29	17.957	
14,900.00	7,870.00	7,821.00	7,821.00	104.87	135.52	-90.00	-2,507.17	5,436.52	4,243.93	4,009.86	234.07	18.131	
15,000.00	7,870.00	7,821.00	7,821.00	106.50	135.52	-90.00	-2,507.17	5,436.52	4,300.27	4,065.47	234.80	18.315	
15,100.00	7,870.00	7,821.00	7,821.00	108.13	135.52	-90.00	-2,507.17	5,436.52	4,358.18	4,122.71	235.48	18.508	
15,200.00	7,870.00	7,821.00	7,821.00	109.77	135.52	-90.00	-2,507.17	5,436.52	4,417.60	4,181.48	236.11	18.710	
15,300.00	7,870.00	7,821.00	7,821.00	111.41	135.52	-90.00	-2,507.17	5,436.52	4,478.46	4,241.75	236.71	18.920	
15,400.00	7,870.00	7,821.00	7,821.00	113.05	135.52	-90.00	-2,507.17	5,436.52	4,540.70	4,303.45	237.26	19.138	
15,500.00	7,870.00	7,821.00	7,821.00	114.70	135.52	-90.00	-2,507.17	5,436.52	4,604.28	4,366.51	237.77	19.364	
15,600.00	7,870.00	7,821.00	7,821.00	116.35	135.52	-90.00	-2,507.17	5,436.52	4,669.14	4,430.88	238.25	19.597	
15,700.00	7,870.00	7,821.00	7,821.00	118.00	135.52	-90.00	-2,507.17	5,436.52	4,735.21	4,496.52	238.70	19.838	
15,800.00	7,870.00	7,821.00	7,821.00	119.66	135.52	-90.00	-2,507.17	5,436.52	4,802.47	4,563.35	239.11	20.085	
15,900.00	7,870.00	7,821.00	7,821.00	121.32	135.52	-90.00	-2,507.17	5,436.52	4,870.84	4,631.35	239.49	20.338	
16,000.00	7,870.00	7,821.00	7,821.00	122.98	135.52	-90.00	-2,507.17	5,436.52	4,940.29	4,700.45	239.85	20.598	
16,100.00	7,870.00	7,821.00	7,821.00	124.65	135.52	-90.00	-2,507.17	5,436.52	5,010.78	4,770.61	240.17	20.863	
16,200.00	7,870.00	7,821.00	7,821.00	126.32	135.52	-90.00	-2,507.17	5,436.52	5,082.26	4,841.78	240.48	21.134	
16,300.00	7,870.00	7,821.00	7,821.00	127.99	135.52	-90.00	-2,507.17	5,436.52	5,154.68	4,913.93	240.75	21.411	
16,400.00	7,870.00	7,821.00	7,821.00	129.66	135.52	-90.00	-2,507.17	5,436.52	5,228.02	4,987.01	241.01	21.692	
16,500.00	7,870.00	7,821.00	7,821.00	131.33	135.52	-90.00	-2,507.17	5,436.52	5,302.23	5,060.98	241.24	21.979	
16,600.00	7,870.00	7,821.00	7,821.00	133.01	135.52	-90.00	-2,507.17	5,436.52	5,377.27	5,135.81	241.46	22.270	
16,700.00	7,870.00	7,821.00	7,821.00	134.69	135.52	-90.00	-2,507.17	5,436.52	5,453.11	5,211.46	241.66	22.566	
16,800.00	7,870.00	7,821.00	7,821.00	136.37	135.52	-90.00	-2,507.17	5,436.52	5,529.72	5,287.89	241.84	22.866	
16,900.00	7,870.00	7,821.00	7,821.00	138.06	135.52	-90.00	-2,507.17	5,436.52	5,607.07	5,365.07	242.00	23.170	
17,000.00	7,870.00	7,821.00	7,821.00	139.74	135.52	-90.00	-2,507.17	5,436.52	5,685.13	5,442.98	242.15	23.478	
17,100.00	7,870.00	7,821.00	7,821.00	141.43	135.52	-90.00	-2,507.17	5,436.52	5,763.86	5,521.58	242.29	23.789	
17,200.00	7,870.00	7,821.00	7,821.00	143.12	135.52	-90.00	-2,507.17	5,436.52	5,843.25	5,600.84	242.41	24.105	
17,300.00	7,870.00	7,821.00	7,821.00	144.81	135.52	-90.00	-2,507.17	5,436.52	5,923.25	5,680.73	242.52	24.424	
17,400.00	7,870.00	7,821.00	7,821.00	146.50	135.52	-90.00	-2,507.17	5,436.52	6,003.86	5,761.24	242.62	24.746	
17,500.00	7,870.00	7,821.00	7,821.00	148.19	135.52	-90.00	-2,507.17	5,436.52	6,085.05	5,842.33	242.71	25.071	
17,600.00	7,870.00	7,821.00	7,821.00	149.89	135.52	-90.00	-2,507.17	5,436.52	6,166.78	5,923.99	242.79	25.400	
17,700.00	7,870.00	7,821.00	7,821.00	151.59	135.52	-90.00	-2,507.17	5,436.52	6,249.05	6,006.19	242.86	25.731	
17,800.00	7,870.00	7,821.00	7,821.00	153.29	135.52	-90.00	-2,507.17	5,436.52	6,331.83	6,088.90	242.92	26.065	
17,900.00	7,870.00	7,821.00	7,821.00	154.99	135.52	-90.00	-2,507.17	5,436.52	6,415.10	6,172.12	242.98	26.402	
18,000.00	7,870.00	7,821.00	7,821.00	156.69	135.52	-90.00	-2,507.17	5,436.52	6,498.84	6,255.81	243.03	26.741	
18,100.00	7,870.00	7,821.00	7,821.00	158.39	135.52	-90.00	-2,507.17	5,436.52	6,583.03	6,339.96	243.07	27.083	
18,200.00	7,870.00	7,821.00	7,821.00	160.09	135.52	-90.00	-2,507.17	5,436.52	6,667.66	6,424.56	243.10	27.427	
18,300.00	7,870.00	7,821.00	7,821.00	161.80	135.52	-90.00	-2,507.17	5,436.52	6,752.71	6,509.58	243.13	27.774	
18,400.00	7,870.00	7,821.00	7,821.00	163.51	135.52	-90.00	-2,507.17	5,436.52	6,838.17	6,595.01	243.16	28.122	
18,455.45	7,870.00	7,821.00	7,821.00	164.45	135.52	-90.00	-2,507.17	5,436.52	6,885.72	6,642.55	243.17	28.317	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	143.14	-4,237.93	3,176.89	5,296.55				
100.00	100.00	73.00	73.00	0.13	0.61	143.14	-4,237.93	3,176.89	5,296.48	5,295.74	0.74	7,161.074	
200.00	200.00	173.00	173.00	0.49	2.10	143.14	-4,237.93	3,176.89	5,296.48	5,293.88	2.60	2,040.229	
300.00	300.00	273.00	273.00	0.85	3.85	143.14	-4,237.93	3,176.89	5,296.48	5,291.78	4.70	1,126.953	
400.00	400.00	373.00	373.00	1.21	5.59	143.14	-4,237.93	3,176.89	5,296.48	5,289.67	6.80	778.479	
500.00	500.00	473.00	473.00	1.57	7.34	143.14	-4,237.93	3,176.89	5,296.48	5,287.57	8.91	594.614	
600.00	600.00	573.00	573.00	1.93	9.08	143.14	-4,237.93	3,176.89	5,296.48	5,285.47	11.01	481.007	
700.00	700.00	673.00	673.00	2.29	10.83	143.14	-4,237.93	3,176.89	5,296.48	5,283.36	13.12	403.848	
800.00	800.00	773.00	773.00	2.64	12.58	143.14	-4,237.93	3,176.89	5,296.48	5,281.26	15.22	348.021	
900.00	900.00	873.00	873.00	3.00	14.32	143.14	-4,237.93	3,176.89	5,296.48	5,279.15	17.32	305.755	
1,000.00	1,000.00	973.00	973.00	3.36	16.07	143.14	-4,237.93	3,176.89	5,296.48	5,277.05	19.43	272.643	
1,100.00	1,100.00	1,073.00	1,073.00	3.72	17.81	143.14	-4,237.93	3,176.89	5,296.48	5,274.95	21.53	246.002	
1,200.00	1,200.00	1,173.00	1,173.00	4.08	19.56	143.14	-4,237.93	3,176.89	5,296.48	5,272.84	23.63	224.104	
1,300.00	1,300.00	1,273.00	1,273.00	4.44	21.30	143.14	-4,237.93	3,176.89	5,296.48	5,270.74	25.74	205.786	
1,400.00	1,399.98	1,372.98	1,372.98	4.79	23.05	100.21	-4,237.93	3,176.89	5,296.79	5,268.95	27.84	190.266	
1,500.00	1,499.84	1,472.84	1,472.84	5.15	24.79	100.25	-4,237.93	3,176.89	5,297.72	5,267.78	29.94	176.965	
1,600.00	1,599.45	1,572.45	1,572.45	5.51	26.53	100.31	-4,237.93	3,176.89	5,299.28	5,267.25	32.03	165.431	
1,700.00	1,698.70	1,671.70	1,671.70	5.87	28.26	100.40	-4,237.93	3,176.89	5,301.49	5,267.36	34.13	155.333	
1,800.00	1,797.47	1,770.47	1,770.47	6.24	29.98	100.50	-4,237.93	3,176.89	5,304.36	5,268.13	36.23	146.415	
1,900.00	1,895.62	1,868.62	1,868.62	6.63	31.70	100.63	-4,237.93	3,176.89	5,307.92	5,269.59	38.33	138.476	
2,000.00	1,993.06	1,966.06	1,966.06	7.04	33.40	100.78	-4,237.93	3,176.89	5,312.21	5,271.77	40.44	131.358	
2,100.00	2,089.64	2,062.64	2,062.64	7.48	35.08	100.95	-4,237.93	3,176.89	5,317.25	5,274.69	42.56	124.935	
2,200.00	2,185.27	2,158.27	2,158.27	7.94	36.75	101.13	-4,237.93	3,176.89	5,323.10	5,278.40	44.69	119.105	
2,300.00	2,279.82	2,252.82	2,252.82	8.45	38.40	101.32	-4,237.93	3,176.89	5,329.79	5,282.95	46.84	113.787	
2,400.00	2,373.17	2,346.17	2,346.17	8.99	40.03	101.53	-4,237.93	3,176.89	5,337.37	5,288.36	49.00	108.915	
2,500.00	2,465.21	2,438.21	2,438.21	9.58	41.64	101.74	-4,237.93	3,176.89	5,345.90	5,294.71	51.19	104.434	
2,574.08	2,532.50	2,505.50	2,505.50	10.04	42.81	101.90	-4,237.93	3,176.89	5,352.86	5,300.04	52.82	101.341	
2,600.00	2,555.89	2,528.89	2,528.89	10.21	43.22	102.00	-4,237.93	3,176.89	5,355.41	5,302.01	53.39	100.301	
2,700.00	2,646.16	2,619.16	2,619.16	10.88	44.80	102.41	-4,237.93	3,176.89	5,365.43	5,309.81	55.62	96.466	
2,800.00	2,736.44	2,709.44	2,709.44	11.57	46.37	102.82	-4,237.93	3,176.89	5,375.78	5,317.92	57.87	92.901	
2,900.00	2,826.71	2,800.29	2,799.71	12.27	47.96	103.22	-4,237.93	3,176.89	5,386.46	5,326.32	60.14	89.570	
3,000.00	2,916.98	2,889.98	2,889.98	13.00	49.52	103.63	-4,237.93	3,176.89	5,397.46	5,335.06	62.40	86.498	
3,100.00	3,007.25	2,980.25	2,980.25	13.73	51.10	104.03	-4,237.93	3,176.89	5,408.78	5,344.09	64.68	83.620	
3,200.00	3,097.52	3,070.52	3,070.52	14.48	52.67	104.43	-4,237.93	3,176.89	5,420.41	5,353.44	66.97	80.933	
3,300.00	3,187.80	3,160.80	3,160.80	15.23	54.25	104.83	-4,237.93	3,176.89	5,432.36	5,363.09	69.27	78.422	
3,400.00	3,278.07	3,251.07	3,251.07	15.99	55.83	105.23	-4,237.93	3,176.89	5,444.63	5,373.06	71.57	76.071	
3,500.00	3,368.34	3,341.34	3,341.34	16.76	57.40	105.63	-4,237.93	3,176.89	5,457.21	5,383.33	73.88	73.867	
3,600.00	3,458.61	3,431.61	3,431.61	17.54	58.98	106.02	-4,237.93	3,176.89	5,470.09	5,393.90	76.19	71.797	
3,700.00	3,548.89	3,521.89	3,521.89	18.32	60.55	106.41	-4,237.93	3,176.89	5,483.29	5,404.79	78.50	69.852	
3,800.00	3,639.16	3,612.16	3,612.16	19.10	62.13	106.81	-4,237.93	3,176.89	5,496.78	5,415.97	80.81	68.020	
3,900.00	3,729.43	3,702.43	3,702.43	19.89	63.70	107.20	-4,237.93	3,176.89	5,510.59	5,427.46	83.12	66.294	
4,000.00	3,819.70	3,807.30	3,792.70	20.69	65.53	107.58	-4,237.93	3,176.89	5,524.69	5,439.00	85.69	64.472	
4,100.00	3,909.98	3,882.98	3,882.98	21.48	66.85	107.97	-4,237.93	3,176.89	5,539.09	5,451.34	87.75	63.123	
4,200.00	4,000.25	3,973.25	3,973.25	22.28	68.43	108.36	-4,237.93	3,176.89	5,553.78	5,463.72	90.06	61.666	
4,300.00	4,090.52	4,063.52	4,063.52	23.08	70.01	108.74	-4,237.93	3,176.89	5,568.77	5,476.40	92.37	60.285	
4,400.00	4,180.79	4,153.79	4,153.79	23.88	71.58	109.12	-4,237.93	3,176.89	5,584.06	5,489.37	94.68	58.975	
4,500.00	4,271.06	4,244.06	4,244.06	24.69	73.16	109.50	-4,237.93	3,176.89	5,599.63	5,502.63	96.99	57.732	
4,600.00	4,361.34	4,334.34	4,334.34	25.49	74.73	109.88	-4,237.93	3,176.89	5,615.48	5,516.18	99.30	56.550	
4,700.00	4,451.61	4,424.61	4,424.61	26.30	76.31	110.26	-4,237.93	3,176.89	5,631.62	5,530.01	101.61	55.426	
4,800.00	4,541.88	4,514.88	4,514.88	27.11	77.88	110.63	-4,237.93	3,176.89	5,648.04	5,544.13	103.91	54.355	
4,900.00	4,632.15	4,605.15	4,605.15	27.92	79.46	111.01	-4,237.93	3,176.89	5,664.74	5,558.53	106.21	53.334	
5,000.00	4,722.43	4,704.57	4,695.43	28.74	81.19	111.38	-4,237.93	3,176.89	5,681.72	5,573.05	108.67	52.284	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,785.70	4,785.70	29.55	82.61	111.75	-4,237.93	3,176.89	5,698.97	5,588.17	110.81	51.431	
5,200.00	4,902.97	4,875.97	4,875.97	30.37	84.19	112.11	-4,237.93	3,176.89	5,716.50	5,603.40	113.10	50.543	
5,300.00	4,993.24	4,966.24	4,966.24	31.18	85.76	112.48	-4,237.93	3,176.89	5,734.29	5,618.90	115.39	49.694	
5,400.00	5,083.51	5,050.00	5,050.00	32.00	87.22	112.82	-4,237.93	3,176.89	5,752.35	5,634.79	117.57	48.929	
5,500.00	5,173.79	5,050.00	5,050.00	32.82	87.22	112.82	-4,237.93	3,176.89	5,771.49	5,653.26	118.23	48.815	
5,600.00	5,264.06	5,050.00	5,050.00	33.63	87.22	112.82	-4,237.93	3,176.89	5,792.28	5,673.42	118.86	48.730	
5,700.00	5,354.33	5,050.00	5,050.00	34.45	87.22	112.82	-4,237.93	3,176.89	5,814.72	5,695.26	119.47	48.672	
5,800.00	5,444.60	5,050.00	5,050.00	35.27	87.22	112.82	-4,237.93	3,176.89	5,838.79	5,718.75	120.04	48.642	
5,900.00	5,534.88	5,050.00	5,050.00	36.09	87.22	112.82	-4,237.93	3,176.89	5,864.46	5,743.89	120.57	48.638	
6,000.00	5,625.15	5,050.00	5,050.00	36.91	87.22	112.82	-4,237.93	3,176.89	5,891.72	5,770.65	121.08	48.660	
6,100.00	5,715.42	5,050.00	5,050.00	37.74	87.22	112.82	-4,237.93	3,176.89	5,920.55	5,798.99	121.56	48.707	
6,200.00	5,805.69	5,050.00	5,050.00	38.56	87.22	112.82	-4,237.93	3,176.89	5,950.91	5,828.91	122.00	48.778	
6,300.00	5,895.96	5,050.00	5,050.00	39.38	87.22	112.82	-4,237.93	3,176.89	5,982.80	5,860.38	122.42	48.873	
6,400.00	5,986.24	5,050.00	5,050.00	40.20	87.22	112.82	-4,237.93	3,176.89	6,016.17	5,893.37	122.80	48.991	
6,500.00	6,076.51	5,050.00	5,050.00	41.03	87.22	112.82	-4,237.93	3,176.89	6,051.01	5,927.86	123.16	49.132	
6,600.00	6,166.78	5,050.00	5,050.00	41.85	87.22	112.82	-4,237.93	3,176.89	6,087.30	5,963.81	123.49	49.294	
6,700.00	6,257.05	5,050.00	5,050.00	42.67	87.22	112.82	-4,237.93	3,176.89	6,125.01	6,001.22	123.79	49.478	
6,800.00	6,347.33	5,050.00	5,050.00	43.50	87.22	112.82	-4,237.93	3,176.89	6,164.11	6,040.04	124.07	49.683	
6,900.00	6,437.60	5,050.00	5,050.00	44.32	87.22	112.82	-4,237.93	3,176.89	6,204.57	6,080.25	124.32	49.908	
7,000.00	6,527.87	5,050.00	5,050.00	45.15	87.22	112.82	-4,237.93	3,176.89	6,246.37	6,121.82	124.55	50.152	
7,100.00	6,618.14	5,050.00	5,050.00	45.98	87.22	112.82	-4,237.93	3,176.89	6,289.48	6,164.73	124.75	50.416	
7,200.00	6,708.41	5,050.00	5,050.00	46.80	87.22	112.82	-4,237.93	3,176.89	6,333.88	6,208.95	124.93	50.699	
7,300.00	6,798.69	5,050.00	5,050.00	47.63	87.22	112.82	-4,237.93	3,176.89	6,379.54	6,254.45	125.09	50.999	
7,400.00	6,888.96	5,050.00	5,050.00	48.45	87.22	112.82	-4,237.93	3,176.89	6,426.43	6,301.20	125.23	51.317	
7,500.00	6,979.23	5,050.00	5,050.00	49.28	87.22	112.82	-4,237.93	3,176.89	6,474.53	6,349.18	125.35	51.652	
7,600.00	7,069.50	5,050.00	5,050.00	50.11	87.22	112.82	-4,237.93	3,176.89	6,523.80	6,398.35	125.45	52.004	
7,692.09	7,152.63	5,050.00	5,050.00	50.87	87.22	112.82	-4,237.93	3,176.89	6,570.19	6,444.67	125.52	52.342	
7,700.00	7,159.79	5,050.00	5,050.00	50.93	87.22	111.77	-4,237.93	3,176.89	6,574.18	6,448.65	125.53	52.372	
7,750.00	7,205.70	5,050.00	5,050.00	51.32	87.22	103.65	-4,237.93	3,176.89	6,597.48	6,471.93	125.55	52.550	
7,800.00	7,252.52	5,050.00	5,050.00	51.66	87.22	92.65	-4,237.93	3,176.89	6,617.40	6,491.87	125.54	52.713	
7,850.00	7,299.89	5,050.00	5,050.00	51.96	87.22	78.98	-4,237.93	3,176.89	6,633.82	6,508.33	125.49	52.862	
7,900.00	7,347.44	5,050.00	5,050.00	52.20	87.22	64.05	-4,237.93	3,176.89	6,646.65	6,521.23	125.42	52.997	
7,950.00	7,394.83	5,050.00	5,050.00	52.39	87.22	50.01	-4,237.93	3,176.89	6,655.80	6,530.50	125.30	53.117	
8,000.00	7,441.68	5,050.00	5,050.00	52.53	87.22	38.30	-4,237.93	3,176.89	6,661.23	6,536.07	125.15	53.224	
8,050.00	7,487.65	5,050.00	5,050.00	52.62	87.22	29.16	-4,237.93	3,176.89	6,662.90	6,537.92	124.97	53.315	
8,100.00	7,532.37	5,050.00	5,050.00	52.67	87.22	22.16	-4,237.93	3,176.89	6,660.79	6,536.03	124.76	53.389	
8,150.00	7,575.52	5,050.00	5,050.00	52.67	87.22	16.75	-4,237.93	3,176.89	6,654.93	6,530.41	124.52	53.446	
8,200.00	7,616.76	5,050.00	5,050.00	52.63	87.22	12.45	-4,237.93	3,176.89	6,645.35	6,521.10	124.25	53.483	
8,250.00	7,655.77	5,050.00	5,050.00	52.55	87.22	8.92	-4,237.93	3,176.89	6,632.10	6,508.14	123.96	53.501	
8,300.00	7,692.27	5,050.00	5,050.00	52.44	87.22	5.91	-4,237.93	3,176.89	6,615.26	6,491.61	123.65	53.498	
8,350.00	7,725.97	5,050.00	5,050.00	52.29	87.22	3.24	-4,237.93	3,176.89	6,594.94	6,471.61	123.33	53.474	
8,400.00	7,756.62	5,050.00	5,050.00	52.12	87.22	0.76	-4,237.93	3,176.89	6,571.26	6,448.27	123.00	53.427	
8,450.00	7,783.98	5,050.00	5,050.00	51.92	87.22	-1.65	-4,237.93	3,176.89	6,544.36	6,421.71	122.65	53.357	
8,500.00	7,807.85	5,050.00	5,050.00	51.70	87.22	-4.09	-4,237.93	3,176.89	6,514.41	6,392.11	122.30	53.265	
8,550.00	7,828.05	5,050.00	5,050.00	51.45	87.22	-6.68	-4,237.93	3,176.89	6,481.60	6,359.64	121.95	53.148	
8,600.00	7,844.41	5,050.00	5,050.00	51.20	87.22	-9.54	-4,237.93	3,176.89	6,446.13	6,324.52	121.61	53.007	
8,650.00	7,856.82	5,050.00	5,050.00	50.93	87.22	-12.83	-4,237.93	3,176.89	6,408.23	6,286.96	121.27	52.841	
8,700.00	7,865.18	5,050.00	5,050.00	50.65	87.22	-16.75	-4,237.93	3,176.89	6,368.16	6,247.21	120.95	52.651	
8,750.00	7,869.43	5,050.00	5,050.00	50.36	87.22	-21.55	-4,237.93	3,176.89	6,326.17	6,205.53	120.64	52.438	
8,776.25	7,870.00	5,050.00	5,050.00	50.21	87.22	-24.54	-4,237.93	3,176.89	6,303.45	6,182.96	120.49	52.316	
8,800.00	7,870.00	5,050.00	5,050.00	50.08	87.22	-24.54	-4,237.93	3,176.89	6,282.72	6,162.37	120.35	52.203	
8,900.00	7,870.00	5,050.00	5,050.00	49.53	87.22	-24.54	-4,237.93	3,176.89	6,195.67	6,075.91	119.76	51.734	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,050.00	5,050.00	49.01	87.22	-24.54	-4,237.93	3,176.89	6,109.01	5,989.86	119.16	51.269	
9,100.00	7,870.00	5,050.00	5,050.00	48.52	87.22	-24.54	-4,237.93	3,176.89	6,022.77	5,904.23	118.54	50.808	
9,200.00	7,870.00	5,050.00	5,050.00	48.06	87.22	-24.54	-4,237.93	3,176.89	5,936.96	5,819.05	117.91	50.351	
9,300.00	7,870.00	5,050.00	5,050.00	47.63	87.22	-24.54	-4,237.93	3,176.89	5,851.60	5,734.33	117.27	49.899	
9,400.00	7,870.00	5,050.00	5,050.00	47.22	87.22	-24.54	-4,237.93	3,176.89	5,766.71	5,650.10	116.61	49.451	
9,500.00	7,870.00	5,050.00	5,050.00	46.83	87.22	-24.54	-4,237.93	3,176.89	5,682.32	5,566.37	115.95	49.008	
9,600.00	7,870.00	5,050.00	5,050.00	46.48	87.22	-24.54	-4,237.93	3,176.89	5,598.43	5,483.16	115.27	48.569	
9,700.00	7,870.00	5,050.00	5,050.00	46.14	87.22	-24.54	-4,237.93	3,176.89	5,515.09	5,400.51	114.58	48.134	
9,800.00	7,870.00	5,050.00	5,050.00	45.83	87.22	-24.54	-4,237.93	3,176.89	5,432.30	5,318.43	113.88	47.703	
9,900.00	7,870.00	5,050.00	5,050.00	45.54	87.22	-24.54	-4,237.93	3,176.89	5,350.11	5,236.94	113.17	47.277	
10,000.00	7,870.00	5,050.00	5,050.00	45.27	87.22	-24.54	-4,237.93	3,176.89	5,268.53	5,156.08	112.44	46.854	
10,100.00	7,870.00	5,050.00	5,050.00	45.03	87.22	-24.54	-4,237.93	3,176.89	5,187.59	5,075.88	111.71	46.436	
10,200.00	7,870.00	5,050.00	5,050.00	44.82	87.22	-24.54	-4,237.93	3,176.89	5,107.33	4,996.36	110.98	46.021	
10,300.00	7,870.00	5,050.00	5,050.00	44.66	87.22	-24.54	-4,237.93	3,176.89	5,027.78	4,917.55	110.23	45.610	
10,400.00	7,870.00	5,050.00	5,050.00	44.56	87.22	-24.54	-4,237.93	3,176.89	4,948.97	4,839.48	109.49	45.201	
10,500.00	7,870.00	5,050.00	5,050.00	44.58	87.22	-24.54	-4,237.93	3,176.89	4,870.94	4,762.20	108.74	44.795	
10,600.00	7,870.00	5,050.00	5,050.00	44.82	87.22	-24.54	-4,237.93	3,176.89	4,793.72	4,685.74	107.99	44.392	
10,700.00	7,870.00	5,050.00	5,050.00	45.36	87.22	-24.54	-4,237.93	3,176.89	4,717.36	4,610.13	107.24	43.990	
10,800.00	7,870.00	5,050.00	5,050.00	46.15	87.22	-24.54	-4,237.93	3,176.89	4,641.90	4,535.41	106.49	43.589	
10,900.00	7,870.00	5,050.00	5,050.00	47.09	87.22	-24.54	-4,237.93	3,176.89	4,567.38	4,461.63	105.76	43.188	
11,000.00	7,870.00	5,050.00	5,050.00	48.13	87.22	-24.54	-4,237.93	3,176.89	4,493.85	4,388.83	105.03	42.787	
11,100.00	7,870.00	5,050.00	5,050.00	49.22	87.22	-24.54	-4,237.93	3,176.89	4,421.36	4,317.05	104.31	42.385	
11,200.00	7,870.00	5,050.00	5,050.00	50.37	87.22	-24.54	-4,237.93	3,176.89	4,349.96	4,246.35	103.62	41.981	
11,300.00	7,870.00	5,050.00	5,050.00	51.55	87.22	-24.54	-4,237.93	3,176.89	4,279.71	4,176.77	102.94	41.575	
11,400.00	7,870.00	5,050.00	5,050.00	52.76	87.22	-24.54	-4,237.93	3,176.89	4,210.66	4,108.37	102.29	41.166	
11,500.00	7,870.00	5,050.00	5,050.00	54.00	87.22	-24.54	-4,237.93	3,176.89	4,142.87	4,041.21	101.66	40.752	
11,600.00	7,870.00	5,050.00	5,050.00	55.27	87.22	-24.54	-4,237.93	3,176.89	4,076.41	3,975.34	101.07	40.334	
11,700.00	7,870.00	5,050.00	5,050.00	56.56	87.22	-24.54	-4,237.93	3,176.89	4,011.34	3,910.83	100.51	39.910	
11,800.00	7,870.00	5,050.00	5,050.00	57.88	87.22	-24.54	-4,237.93	3,176.89	3,947.73	3,847.74	99.99	39.481	
11,900.00	7,870.00	5,050.00	5,050.00	59.21	87.22	-24.54	-4,237.93	3,176.89	3,885.66	3,786.14	99.51	39.047	
12,000.00	7,870.00	5,050.00	5,050.00	60.57	87.22	-24.54	-4,237.93	3,176.89	3,825.19	3,726.10	99.08	38.606	
12,100.00	7,870.00	5,050.00	5,050.00	61.94	87.22	-24.54	-4,237.93	3,176.89	3,766.40	3,667.70	98.70	38.160	
12,200.00	7,870.00	5,050.00	5,050.00	63.33	87.22	-24.54	-4,237.93	3,176.89	3,709.38	3,611.01	98.37	37.708	
12,300.00	7,870.00	5,050.00	5,050.00	64.74	87.22	-24.54	-4,237.93	3,176.89	3,654.21	3,556.11	98.10	37.251	
12,400.00	7,870.00	5,050.00	5,050.00	66.16	87.22	-24.54	-4,237.93	3,176.89	3,600.97	3,503.09	97.88	36.790	
12,500.00	7,870.00	5,050.00	5,050.00	67.59	87.22	-24.54	-4,237.93	3,176.89	3,549.75	3,452.03	97.72	36.326	
12,600.00	7,870.00	5,050.00	5,050.00	69.04	87.22	-24.54	-4,237.93	3,176.89	3,500.64	3,403.01	97.62	35.859	
12,700.00	7,870.00	5,050.00	5,050.00	70.51	87.22	-24.54	-4,237.93	3,176.89	3,453.72	3,356.13	97.59	35.390	
12,800.00	7,870.00	5,050.00	5,050.00	71.98	87.22	-24.54	-4,237.93	3,176.89	3,409.09	3,311.47	97.62	34.922	
12,900.00	7,870.00	5,050.00	5,050.00	73.47	87.22	-24.54	-4,237.93	3,176.89	3,366.85	3,269.12	97.72	34.453	
13,000.00	7,870.00	5,050.00	5,050.00	74.96	87.22	-24.54	-4,237.93	3,176.89	3,327.07	3,229.18	97.89	33.987	
13,100.00	7,870.00	5,050.00	5,050.00	76.47	87.22	-24.54	-4,237.93	3,176.89	3,289.85	3,191.71	98.14	33.522	
13,200.00	7,870.00	5,050.00	5,050.00	77.99	87.22	-24.54	-4,237.93	3,176.89	3,255.28	3,156.81	98.47	33.060	
13,300.00	7,870.00	5,050.00	5,050.00	79.51	87.22	-24.54	-4,237.93	3,176.89	3,223.44	3,124.57	98.88	32.600	
13,400.00	7,870.00	5,050.00	5,050.00	81.05	87.22	-24.54	-4,237.93	3,176.89	3,194.42	3,095.04	99.38	32.144	
13,500.00	7,870.00	5,050.00	5,050.00	82.59	87.22	-24.54	-4,237.93	3,176.89	3,168.29	3,068.31	99.98	31.690	
13,600.00	7,870.00	5,050.00	5,050.00	84.14	87.22	-24.54	-4,237.93	3,176.89	3,145.12	3,044.44	100.68	31.239	
13,700.00	7,870.00	5,050.00	5,050.00	85.70	87.22	-24.54	-4,237.93	3,176.89	3,124.98	3,023.49	101.49	30.791	
13,800.00	7,870.00	5,050.00	5,050.00	87.26	87.22	-24.54	-4,237.93	3,176.89	3,107.93	3,005.51	102.42	30.345	
13,900.00	7,870.00	5,050.00	5,050.00	88.83	87.22	-24.54	-4,237.93	3,176.89	3,094.02	2,990.55	103.48	29.901	
14,000.00	7,870.00	5,050.00	5,050.00	90.41	87.22	-24.54	-4,237.93	3,176.89	3,083.30	2,978.64	104.66	29.460	
14,100.00	7,870.00	5,050.00	5,050.00	92.00	87.22	-24.54	-4,237.93	3,176.89	3,075.79	2,969.81	105.98	29.023	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,050.00	5,050.00	93.59	87.22	-24.54	-4,237.93	3,176.89	3,071.51	2,964.08	107.43	28.591	
14,281.33	7,870.00	5,050.00	5,050.00	94.89	87.22	-24.54	-4,237.93	3,176.89	3,070.44	2,961.73	108.71	28.245	CC
14,300.00	7,870.00	5,050.00	5,050.00	95.18	87.22	-24.54	-4,237.93	3,176.89	3,070.49	2,961.48	109.01	28.167	ES
14,400.00	7,870.00	5,050.00	5,050.00	96.79	87.22	-24.54	-4,237.93	3,176.89	3,072.73	2,962.01	110.72	27.753	
14,500.00	7,870.00	5,050.00	5,050.00	98.39	87.22	-24.54	-4,237.93	3,176.89	3,078.21	2,965.68	112.53	27.354	
14,600.00	7,870.00	5,050.00	5,050.00	100.00	87.22	-24.54	-4,237.93	3,176.89	3,086.93	2,972.47	114.45	26.971	
14,700.00	7,870.00	5,050.00	5,050.00	101.62	87.22	-24.54	-4,237.93	3,176.89	3,098.85	2,982.39	116.46	26.609	
14,800.00	7,870.00	5,050.00	5,050.00	103.24	87.22	-24.54	-4,237.93	3,176.89	3,113.93	2,995.40	118.53	26.270	
14,900.00	7,870.00	5,050.00	5,050.00	104.87	87.22	-24.54	-4,237.93	3,176.89	3,132.14	3,011.48	120.66	25.959	
15,000.00	7,870.00	5,050.00	5,050.00	106.50	87.22	-24.54	-4,237.93	3,176.89	3,153.42	3,030.61	122.81	25.677	
15,100.00	7,870.00	5,050.00	5,050.00	108.13	87.22	-24.54	-4,237.93	3,176.89	3,177.70	3,052.72	124.98	25.426	
15,200.00	7,870.00	5,050.00	5,050.00	109.77	87.22	-24.54	-4,237.93	3,176.89	3,204.92	3,077.78	127.14	25.207	
15,300.00	7,870.00	5,050.00	5,050.00	111.41	87.22	-24.54	-4,237.93	3,176.89	3,235.00	3,105.72	129.29	25.022	
15,400.00	7,870.00	5,050.00	5,050.00	113.05	87.22	-24.54	-4,237.93	3,176.89	3,267.87	3,136.48	131.40	24.870	
15,500.00	7,870.00	5,050.00	5,050.00	114.70	87.22	-24.54	-4,237.93	3,176.89	3,303.44	3,169.98	133.46	24.752	
15,600.00	7,870.00	5,050.00	5,050.00	116.35	87.22	-24.54	-4,237.93	3,176.89	3,341.62	3,206.16	135.47	24.667	
15,700.00	7,870.00	5,050.00	5,050.00	118.00	87.22	-24.54	-4,237.93	3,176.89	3,382.33	3,244.92	137.41	24.615	
15,800.00	7,870.00	5,050.00	5,050.00	119.66	87.22	-24.54	-4,237.93	3,176.89	3,425.48	3,286.19	139.29	24.593	SF
15,900.00	7,870.00	5,050.00	5,050.00	121.32	87.22	-24.54	-4,237.93	3,176.89	3,470.97	3,329.89	141.09	24.602	
16,000.00	7,870.00	5,050.00	5,050.00	122.98	87.22	-24.54	-4,237.93	3,176.89	3,518.72	3,375.91	142.81	24.639	
16,100.00	7,870.00	5,050.00	5,050.00	124.65	87.22	-24.54	-4,237.93	3,176.89	3,568.63	3,424.18	144.45	24.705	
16,200.00	7,870.00	5,050.00	5,050.00	126.32	87.22	-24.54	-4,237.93	3,176.89	3,620.62	3,474.60	146.01	24.797	
16,300.00	7,870.00	5,050.00	5,050.00	127.99	87.22	-24.54	-4,237.93	3,176.89	3,674.59	3,527.09	147.49	24.914	
16,400.00	7,870.00	5,050.00	5,050.00	129.66	87.22	-24.54	-4,237.93	3,176.89	3,730.46	3,581.56	148.89	25.054	
16,500.00	7,870.00	5,050.00	5,050.00	131.33	87.22	-24.54	-4,237.93	3,176.89	3,788.15	3,637.93	150.22	25.218	
16,600.00	7,870.00	5,050.00	5,050.00	133.01	87.22	-24.54	-4,237.93	3,176.89	3,847.57	3,696.10	151.47	25.402	
16,700.00	7,870.00	5,050.00	5,050.00	134.69	87.22	-24.54	-4,237.93	3,176.89	3,908.65	3,756.01	152.64	25.607	
16,800.00	7,870.00	5,050.00	5,050.00	136.37	87.22	-24.54	-4,237.93	3,176.89	3,971.30	3,817.56	153.74	25.831	
16,900.00	7,870.00	5,050.00	5,050.00	138.06	87.22	-24.54	-4,237.93	3,176.89	4,035.47	3,880.69	154.78	26.073	
17,000.00	7,870.00	5,050.00	5,050.00	139.74	87.22	-24.54	-4,237.93	3,176.89	4,101.06	3,945.32	155.75	26.331	
17,100.00	7,870.00	5,050.00	5,050.00	141.43	87.22	-24.54	-4,237.93	3,176.89	4,168.03	4,011.37	156.66	26.606	
17,200.00	7,870.00	5,050.00	5,050.00	143.12	87.22	-24.54	-4,237.93	3,176.89	4,236.29	4,078.79	157.51	26.896	
17,300.00	7,870.00	5,050.00	5,050.00	144.81	87.22	-24.54	-4,237.93	3,176.89	4,305.80	4,147.50	158.30	27.200	
17,400.00	7,870.00	5,050.00	5,050.00	146.50	87.22	-24.54	-4,237.93	3,176.89	4,376.49	4,217.45	159.04	27.518	
17,500.00	7,870.00	5,050.00	5,050.00	148.19	87.22	-24.54	-4,237.93	3,176.89	4,448.30	4,288.57	159.73	27.849	
17,600.00	7,870.00	5,050.00	5,050.00	149.89	87.22	-24.54	-4,237.93	3,176.89	4,521.19	4,360.81	160.38	28.191	
17,700.00	7,870.00	5,050.00	5,050.00	151.59	87.22	-24.54	-4,237.93	3,176.89	4,595.09	4,434.11	160.98	28.545	
17,800.00	7,870.00	5,050.00	5,050.00	153.29	87.22	-24.54	-4,237.93	3,176.89	4,669.97	4,508.43	161.54	28.910	
17,900.00	7,870.00	5,050.00	5,050.00	154.99	87.22	-24.54	-4,237.93	3,176.89	4,745.77	4,583.71	162.06	29.285	
18,000.00	7,870.00	5,050.00	5,050.00	156.69	87.22	-24.54	-4,237.93	3,176.89	4,822.45	4,659.91	162.54	29.669	
18,100.00	7,870.00	5,050.00	5,050.00	158.39	87.22	-24.54	-4,237.93	3,176.89	4,899.98	4,736.99	162.99	30.063	
18,200.00	7,870.00	5,050.00	5,050.00	160.09	87.22	-24.54	-4,237.93	3,176.89	4,978.31	4,814.89	163.41	30.465	
18,300.00	7,870.00	5,050.00	5,050.00	161.80	87.22	-24.54	-4,237.93	3,176.89	5,057.40	4,893.60	163.80	30.875	
18,400.00	7,870.00	5,050.00	5,050.00	163.51	87.22	-24.54	-4,237.93	3,176.89	5,137.22	4,973.05	164.16	31.294	
18,455.45	7,870.00	5,050.00	5,050.00	164.45	87.22	-24.54	-4,237.93	3,176.89	5,181.78	5,017.43	164.35	31.529	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	156.33	-4,238.06	1,857.85	4,627.46				
100.00	100.00	75.00	75.00	0.13	0.62	156.33	-4,238.06	1,857.85	4,627.40	4,626.65	0.75	6,172.690	
200.00	200.00	175.00	175.00	0.49	2.13	156.33	-4,238.06	1,857.85	4,627.40	4,624.77	2.62	1,764.699	
300.00	300.00	275.00	275.00	0.85	3.87	156.33	-4,238.06	1,857.85	4,627.40	4,622.67	4.73	979.135	
400.00	400.00	375.00	375.00	1.21	5.62	156.33	-4,238.06	1,857.85	4,627.40	4,620.57	6.83	677.530	
500.00	500.00	475.00	475.00	1.57	7.37	156.33	-4,238.06	1,857.85	4,627.40	4,618.46	8.93	517.976	
600.00	600.00	575.00	575.00	1.93	9.11	156.33	-4,238.06	1,857.85	4,627.40	4,616.36	11.04	419.247	
700.00	700.00	675.00	675.00	2.29	10.86	156.33	-4,238.06	1,857.85	4,627.40	4,614.25	13.14	352.129	
800.00	800.00	775.00	775.00	2.64	12.60	156.33	-4,238.06	1,857.85	4,627.40	4,612.15	15.25	303.535	
900.00	900.00	875.00	875.00	3.00	14.35	156.33	-4,238.06	1,857.85	4,627.40	4,610.05	17.35	266.727	
1,000.00	1,000.00	975.00	975.00	3.36	16.09	156.33	-4,238.06	1,857.85	4,627.40	4,607.94	19.45	237.880	
1,100.00	1,100.00	1,075.00	1,075.00	3.72	17.84	156.33	-4,238.06	1,857.85	4,627.40	4,605.84	21.56	214.664	
1,200.00	1,200.00	1,175.00	1,175.00	4.08	19.58	156.33	-4,238.06	1,857.85	4,627.40	4,603.74	23.66	195.577	
1,300.00	1,300.00	1,275.00	1,275.00	4.44	21.33	156.33	-4,238.06	1,857.85	4,627.40	4,601.63	25.76	179.607	
1,400.00	1,399.98	1,374.98	1,374.98	4.79	23.07	113.39	-4,238.06	1,857.85	4,628.09	4,600.22	27.87	166.088	
1,500.00	1,499.84	1,474.84	1,474.84	5.15	24.82	113.41	-4,238.06	1,857.85	4,630.17	4,600.21	29.96	154.528	
1,600.00	1,599.45	1,574.45	1,574.45	5.51	26.55	113.45	-4,238.06	1,857.85	4,633.65	4,601.59	32.06	144.529	
1,700.00	1,698.70	1,673.70	1,673.70	5.87	28.29	113.50	-4,238.06	1,857.85	4,638.53	4,604.38	34.16	135.801	
1,800.00	1,797.47	1,772.47	1,772.47	6.24	30.01	113.56	-4,238.06	1,857.85	4,644.84	4,608.59	36.25	128.119	
1,900.00	1,895.62	1,870.62	1,870.62	6.63	31.72	113.62	-4,238.06	1,857.85	4,652.60	4,614.24	38.35	121.308	
2,000.00	1,993.06	1,968.06	1,968.06	7.04	33.42	113.70	-4,238.06	1,857.85	4,661.83	4,621.37	40.46	115.227	
2,100.00	2,089.64	2,064.64	2,064.64	7.48	35.11	113.79	-4,238.06	1,857.85	4,672.55	4,629.99	42.57	109.767	
2,200.00	2,185.27	2,160.27	2,160.27	7.94	36.78	113.88	-4,238.06	1,857.85	4,684.82	4,640.13	44.69	104.836	
2,300.00	2,279.82	2,254.82	2,254.82	8.45	38.43	113.97	-4,238.06	1,857.85	4,698.65	4,651.83	46.82	100.364	
2,400.00	2,373.17	2,348.17	2,348.17	8.99	40.06	114.06	-4,238.06	1,857.85	4,714.08	4,665.13	48.96	96.290	
2,500.00	2,465.21	2,440.21	2,440.21	9.58	41.66	114.15	-4,238.06	1,857.85	4,731.17	4,680.06	51.11	92.567	
2,574.08	2,532.50	2,507.50	2,507.50	10.04	42.84	114.21	-4,238.06	1,857.85	4,744.91	4,692.19	52.71	90.012	
2,600.00	2,555.89	2,530.89	2,530.89	10.21	43.25	114.32	-4,238.06	1,857.85	4,749.89	4,696.61	53.28	89.155	
2,700.00	2,646.16	2,621.16	2,621.16	10.88	44.82	114.76	-4,238.06	1,857.85	4,769.30	4,713.84	55.46	85.996	
2,800.00	2,736.44	2,711.44	2,711.44	11.57	46.40	115.19	-4,238.06	1,857.85	4,789.03	4,731.37	57.66	83.060	
2,900.00	2,826.71	2,801.71	2,801.71	12.27	47.97	115.61	-4,238.06	1,857.85	4,809.06	4,749.19	59.87	80.328	
3,000.00	2,916.98	2,908.02	2,891.98	13.00	49.83	116.04	-4,238.06	1,857.85	4,829.38	4,767.02	62.37	77.434	
3,100.00	3,007.25	2,982.25	2,982.25	13.73	51.13	116.46	-4,238.06	1,857.85	4,850.01	4,785.69	64.32	75.410	
3,200.00	3,097.52	3,072.52	3,072.52	14.48	52.70	116.88	-4,238.06	1,857.85	4,870.93	4,804.38	66.55	73.194	
3,300.00	3,187.80	3,162.80	3,162.80	15.23	54.28	117.29	-4,238.06	1,857.85	4,892.13	4,823.35	68.78	71.122	
3,400.00	3,278.07	3,253.07	3,253.07	15.99	55.85	117.71	-4,238.06	1,857.85	4,913.62	4,842.60	71.02	69.182	
3,500.00	3,368.34	3,343.34	3,343.34	16.76	57.43	118.11	-4,238.06	1,857.85	4,935.40	4,862.13	73.27	67.362	
3,600.00	3,458.61	3,433.61	3,433.61	17.54	59.00	118.52	-4,238.06	1,857.85	4,957.45	4,881.94	75.51	65.653	
3,700.00	3,548.89	3,523.89	3,523.89	18.32	60.58	118.92	-4,238.06	1,857.85	4,979.77	4,902.02	77.75	64.046	
3,800.00	3,639.16	3,614.16	3,614.16	19.10	62.15	119.32	-4,238.06	1,857.85	5,002.37	4,922.37	80.00	62.533	
3,900.00	3,729.43	3,704.43	3,704.43	19.89	63.73	119.72	-4,238.06	1,857.85	5,025.23	4,942.99	82.24	61.105	
4,000.00	3,819.70	3,805.30	3,794.70	20.69	65.49	120.11	-4,238.06	1,857.85	5,048.35	4,963.69	84.67	59.627	
4,100.00	3,909.98	3,884.98	3,884.98	21.48	66.88	120.50	-4,238.06	1,857.85	5,071.74	4,985.02	86.72	58.484	
4,200.00	4,000.25	3,975.25	3,975.25	22.28	68.46	120.89	-4,238.06	1,857.85	5,095.38	5,006.42	88.96	57.278	
4,300.00	4,090.52	4,065.52	4,065.52	23.08	70.03	121.28	-4,238.06	1,857.85	5,119.27	5,028.07	91.20	56.135	
4,400.00	4,180.79	4,155.79	4,155.79	23.88	71.61	121.66	-4,238.06	1,857.85	5,143.41	5,049.98	93.43	55.051	
4,500.00	4,271.06	4,246.06	4,246.06	24.69	73.18	122.03	-4,238.06	1,857.85	5,167.80	5,072.14	95.66	54.022	
4,600.00	4,361.34	4,336.34	4,336.34	25.49	74.76	122.41	-4,238.06	1,857.85	5,192.43	5,094.54	97.89	53.043	
4,700.00	4,451.61	4,426.61	4,426.61	26.30	76.33	122.78	-4,238.06	1,857.85	5,217.29	5,117.18	100.12	52.112	
4,800.00	4,541.88	4,516.88	4,516.88	27.11	77.91	123.15	-4,238.06	1,857.85	5,242.40	5,140.06	102.34	51.225	
4,900.00	4,632.15	4,607.15	4,607.15	27.92	79.48	123.52	-4,238.06	1,857.85	5,267.73	5,163.17	104.56	50.379	
5,000.00	4,722.43	4,702.57	4,697.43	28.74	81.15	123.88	-4,238.06	1,857.85	5,293.29	5,186.42	106.87	49.530	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,787.70	4,787.70	29.55	82.64	124.24	-4,238.06	1,857.85	5,319.08	5,210.09	109.00	48.801	
5,200.00	4,902.97	4,877.97	4,877.97	30.37	84.21	124.59	-4,238.06	1,857.85	5,345.09	5,233.88	111.21	48.064	
5,300.00	4,993.24	4,968.24	4,968.24	31.18	85.79	124.95	-4,238.06	1,857.85	5,371.32	5,257.90	113.42	47.360	
5,400.00	5,083.51	5,058.51	5,058.51	32.00	87.36	125.30	-4,238.06	1,857.85	5,397.76	5,282.14	115.62	46.685	
5,500.00	5,173.79	5,148.79	5,148.79	32.82	88.94	125.65	-4,238.06	1,857.85	5,424.42	5,306.60	117.82	46.039	
5,600.00	5,264.06	5,239.06	5,239.06	33.63	90.51	125.99	-4,238.06	1,857.85	5,451.29	5,331.26	120.02	45.419	
5,700.00	5,354.33	5,329.33	5,329.33	34.45	92.09	126.33	-4,238.06	1,857.85	5,478.36	5,356.14	122.22	44.824	
5,800.00	5,444.60	5,419.60	5,419.60	35.27	93.66	126.67	-4,238.06	1,857.85	5,505.63	5,381.22	124.41	44.254	
5,900.00	5,534.88	5,450.00	5,450.00	36.09	94.20	126.78	-4,238.06	1,857.85	5,533.43	5,407.92	125.51	44.086	
6,000.00	5,625.15	5,450.00	5,450.00	36.91	94.20	126.78	-4,238.06	1,857.85	5,562.80	5,436.77	126.03	44.137	
6,100.00	5,715.42	5,450.00	5,450.00	37.74	94.20	126.78	-4,238.06	1,857.85	5,593.81	5,467.29	126.52	44.213	
6,200.00	5,805.69	5,450.00	5,450.00	38.56	94.20	126.78	-4,238.06	1,857.85	5,626.43	5,499.46	126.97	44.314	
6,300.00	5,895.96	5,450.00	5,450.00	39.38	94.20	126.78	-4,238.06	1,857.85	5,660.62	5,533.24	127.38	44.439	
6,400.00	5,986.24	5,450.00	5,450.00	40.20	94.20	126.78	-4,238.06	1,857.85	5,696.37	5,568.61	127.76	44.587	
6,500.00	6,076.51	5,450.00	5,450.00	41.03	94.20	126.78	-4,238.06	1,857.85	5,733.63	5,605.53	128.11	44.757	
6,600.00	6,166.78	5,450.00	5,450.00	41.85	94.20	126.78	-4,238.06	1,857.85	5,772.39	5,643.97	128.42	44.950	
6,700.00	6,257.05	5,450.00	5,450.00	42.67	94.20	126.78	-4,238.06	1,857.85	5,812.61	5,683.91	128.70	45.163	
6,800.00	6,347.33	5,450.00	5,450.00	43.50	94.20	126.78	-4,238.06	1,857.85	5,854.26	5,725.31	128.95	45.398	
6,900.00	6,437.60	5,450.00	5,450.00	44.32	94.20	126.78	-4,238.06	1,857.85	5,897.31	5,768.13	129.18	45.652	
7,000.00	6,527.87	5,450.00	5,450.00	45.15	94.20	126.78	-4,238.06	1,857.85	5,941.74	5,812.36	129.38	45.926	
7,100.00	6,618.14	5,450.00	5,450.00	45.98	94.20	126.78	-4,238.06	1,857.85	5,987.50	5,857.96	129.55	46.219	
7,200.00	6,708.41	5,450.00	5,450.00	46.80	94.20	126.78	-4,238.06	1,857.85	6,034.58	5,904.89	129.69	46.531	
7,300.00	6,798.69	5,450.00	5,450.00	47.63	94.20	126.78	-4,238.06	1,857.85	6,082.93	5,953.12	129.81	46.860	
7,400.00	6,888.96	5,450.00	5,450.00	48.45	94.20	126.78	-4,238.06	1,857.85	6,132.54	6,002.63	129.91	47.207	
7,500.00	6,979.23	5,450.00	5,450.00	49.28	94.20	126.78	-4,238.06	1,857.85	6,183.36	6,053.38	129.98	47.570	
7,600.00	7,069.50	5,450.00	5,450.00	50.11	94.20	126.78	-4,238.06	1,857.85	6,235.38	6,105.34	130.04	47.950	
7,692.09	7,152.63	5,450.00	5,450.00	50.87	94.20	126.78	-4,238.06	1,857.85	6,284.30	6,154.23	130.07	48.314	
7,700.00	7,159.79	5,450.00	5,450.00	50.93	94.20	125.63	-4,238.06	1,857.85	6,288.51	6,158.43	130.07	48.345	
7,750.00	7,205.70	5,450.00	5,450.00	51.32	94.20	116.93	-4,238.06	1,857.85	6,313.08	6,183.00	130.07	48.534	
7,800.00	7,252.52	5,450.00	5,450.00	51.66	94.20	105.47	-4,238.06	1,857.85	6,334.11	6,204.06	130.05	48.704	
7,850.00	7,299.89	5,450.00	5,450.00	51.96	94.20	91.44	-4,238.06	1,857.85	6,351.48	6,221.47	130.01	48.853	
7,900.00	7,347.44	5,450.00	5,450.00	52.20	94.20	76.25	-4,238.06	1,857.85	6,365.09	6,235.15	129.94	48.984	
7,950.00	7,394.83	5,450.00	5,450.00	52.39	94.20	62.01	-4,238.06	1,857.85	6,374.86	6,245.01	129.85	49.096	
8,000.00	7,441.68	5,450.00	5,450.00	52.53	94.20	50.20	-4,238.06	1,857.85	6,380.73	6,251.01	129.72	49.189	
8,050.00	7,487.65	5,450.00	5,450.00	52.62	94.20	41.03	-4,238.06	1,857.85	6,382.67	6,253.10	129.56	49.263	
8,100.00	7,532.37	5,450.00	5,450.00	52.67	94.20	34.08	-4,238.06	1,857.85	6,380.66	6,251.28	129.38	49.316	
8,150.00	7,575.52	5,450.00	5,450.00	52.67	94.20	28.78	-4,238.06	1,857.85	6,374.72	6,245.54	129.18	49.348	
8,200.00	7,616.76	5,450.00	5,450.00	52.63	94.20	24.68	-4,238.06	1,857.85	6,364.88	6,235.93	128.95	49.358	
8,250.00	7,655.77	5,450.00	5,450.00	52.55	94.20	21.44	-4,238.06	1,857.85	6,351.20	6,222.49	128.71	49.345	
8,300.00	7,692.27	5,450.00	5,450.00	52.44	94.20	18.80	-4,238.06	1,857.85	6,333.76	6,205.31	128.45	49.309	
8,350.00	7,725.97	5,450.00	5,450.00	52.29	94.20	16.61	-4,238.06	1,857.85	6,312.67	6,184.49	128.18	49.249	
8,400.00	7,756.62	5,450.00	5,450.00	52.12	94.20	14.74	-4,238.06	1,857.85	6,288.03	6,160.13	127.90	49.165	
8,450.00	7,783.98	5,450.00	5,450.00	51.92	94.20	13.08	-4,238.06	1,857.85	6,260.01	6,132.40	127.61	49.055	
8,500.00	7,807.85	5,450.00	5,450.00	51.70	94.20	11.55	-4,238.06	1,857.85	6,228.77	6,101.45	127.32	48.921	
8,550.00	7,828.05	5,450.00	5,450.00	51.45	94.20	10.08	-4,238.06	1,857.85	6,194.51	6,067.47	127.04	48.761	
8,600.00	7,844.41	5,450.00	5,450.00	51.20	94.20	8.58	-4,238.06	1,857.85	6,157.42	6,030.66	126.76	48.575	
8,650.00	7,856.82	5,450.00	5,450.00	50.93	94.20	6.96	-4,238.06	1,857.85	6,117.76	5,991.27	126.49	48.365	
8,700.00	7,865.18	5,450.00	5,450.00	50.65	94.20	5.05	-4,238.06	1,857.85	6,075.77	5,949.53	126.24	48.130	
8,750.00	7,869.43	5,450.00	5,450.00	50.36	94.20	2.64	-4,238.06	1,857.85	6,031.73	5,905.73	126.00	47.870	
8,776.25	7,870.00	5,450.00	5,450.00	50.21	94.20	1.04	-4,238.06	1,857.85	6,007.88	5,881.99	125.89	47.724	
8,800.00	7,870.00	5,450.00	5,450.00	50.08	94.20	1.04	-4,238.06	1,857.85	5,986.11	5,860.32	125.79	47.589	
8,900.00	7,870.00	5,450.00	5,450.00	49.53	94.20	1.04	-4,238.06	1,857.85	5,894.60	5,769.26	125.34	47.028	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,450.00	5,450.00	49.01	94.20	1.04	-4,238.06	1,857.85	5,803.37	5,678.49	124.88	46.470	
9,100.00	7,870.00	5,450.00	5,450.00	48.52	94.20	1.04	-4,238.06	1,857.85	5,712.44	5,588.03	124.41	45.916	
9,200.00	7,870.00	5,450.00	5,450.00	48.06	94.20	1.04	-4,238.06	1,857.85	5,621.81	5,497.89	123.92	45.366	
9,300.00	7,870.00	5,450.00	5,450.00	47.63	94.20	1.04	-4,238.06	1,857.85	5,531.51	5,408.09	123.42	44.820	
9,400.00	7,870.00	5,450.00	5,450.00	47.22	94.20	1.04	-4,238.06	1,857.85	5,441.54	5,318.65	122.89	44.279	
9,500.00	7,870.00	5,450.00	5,450.00	46.83	94.20	1.04	-4,238.06	1,857.85	5,351.93	5,229.58	122.35	43.742	
9,600.00	7,870.00	5,450.00	5,450.00	46.48	94.20	1.04	-4,238.06	1,857.85	5,262.70	5,140.91	121.79	43.210	
9,700.00	7,870.00	5,450.00	5,450.00	46.14	94.20	1.04	-4,238.06	1,857.85	5,173.86	5,052.64	121.22	42.683	
9,800.00	7,870.00	5,450.00	5,450.00	45.83	94.20	1.04	-4,238.06	1,857.85	5,085.43	4,964.81	120.62	42.161	
9,900.00	7,870.00	5,450.00	5,450.00	45.54	94.20	1.04	-4,238.06	1,857.85	4,997.44	4,877.44	120.00	41.645	
10,000.00	7,870.00	5,450.00	5,450.00	45.27	94.20	1.04	-4,238.06	1,857.85	4,909.91	4,790.55	119.36	41.135	
10,100.00	7,870.00	5,450.00	5,450.00	45.03	94.20	1.04	-4,238.06	1,857.85	4,822.87	4,704.17	118.70	40.631	
10,200.00	7,870.00	5,450.00	5,450.00	44.82	94.20	1.04	-4,238.06	1,857.85	4,736.34	4,618.32	118.01	40.134	
10,300.00	7,870.00	5,450.00	5,450.00	44.66	94.20	1.04	-4,238.06	1,857.85	4,650.34	4,533.04	117.30	39.644	
10,400.00	7,870.00	5,450.00	5,450.00	44.56	94.20	1.04	-4,238.06	1,857.85	4,564.92	4,448.35	116.57	39.161	
10,500.00	7,870.00	5,450.00	5,450.00	44.58	94.20	1.04	-4,238.06	1,857.85	4,480.10	4,364.29	115.81	38.686	
10,600.00	7,870.00	5,450.00	5,450.00	44.82	94.20	1.04	-4,238.06	1,857.85	4,395.92	4,280.90	115.02	38.218	
10,700.00	7,870.00	5,450.00	5,450.00	45.36	94.20	1.04	-4,238.06	1,857.85	4,312.42	4,198.21	114.21	37.759	
10,800.00	7,870.00	5,450.00	5,450.00	46.15	94.20	1.04	-4,238.06	1,857.85	4,229.63	4,116.26	113.37	37.309	
10,900.00	7,870.00	5,450.00	5,450.00	47.09	94.20	1.04	-4,238.06	1,857.85	4,147.60	4,035.10	112.50	36.869	
11,000.00	7,870.00	5,450.00	5,450.00	48.13	94.20	1.04	-4,238.06	1,857.85	4,066.37	3,954.77	111.60	36.438	
11,100.00	7,870.00	5,450.00	5,450.00	49.22	94.20	1.04	-4,238.06	1,857.85	3,986.00	3,875.33	110.67	36.018	
11,200.00	7,870.00	5,450.00	5,450.00	50.37	94.20	1.04	-4,238.06	1,857.85	3,906.53	3,796.82	109.71	35.608	
11,300.00	7,870.00	5,450.00	5,450.00	51.55	94.20	1.04	-4,238.06	1,857.85	3,828.03	3,719.31	108.72	35.210	
11,400.00	7,870.00	5,450.00	5,450.00	52.76	94.20	1.04	-4,238.06	1,857.85	3,750.55	3,642.85	107.70	34.824	
11,500.00	7,870.00	5,450.00	5,450.00	54.00	94.20	1.04	-4,238.06	1,857.85	3,674.16	3,567.51	106.65	34.451	
11,600.00	7,870.00	5,450.00	5,450.00	55.27	94.20	1.04	-4,238.06	1,857.85	3,598.92	3,493.35	105.57	34.091	
11,700.00	7,870.00	5,450.00	5,450.00	56.56	94.20	1.04	-4,238.06	1,857.85	3,524.92	3,420.46	104.46	33.745	
11,800.00	7,870.00	5,450.00	5,450.00	57.88	94.20	1.04	-4,238.06	1,857.85	3,452.22	3,348.91	103.31	33.415	
11,900.00	7,870.00	5,450.00	5,450.00	59.21	94.20	1.04	-4,238.06	1,857.85	3,380.93	3,278.78	102.14	33.100	
12,000.00	7,870.00	5,450.00	5,450.00	60.57	94.20	1.04	-4,238.06	1,857.85	3,311.11	3,210.17	100.94	32.802	
12,100.00	7,870.00	5,450.00	5,450.00	61.94	94.20	1.04	-4,238.06	1,857.85	3,242.88	3,143.17	99.71	32.523	
12,200.00	7,870.00	5,450.00	5,450.00	63.33	94.20	1.04	-4,238.06	1,857.85	3,176.33	3,077.88	98.45	32.263	
12,300.00	7,870.00	5,450.00	5,450.00	64.74	94.20	1.04	-4,238.06	1,857.85	3,111.58	3,014.41	97.17	32.024	
12,400.00	7,870.00	5,450.00	5,450.00	66.16	94.20	1.04	-4,238.06	1,857.85	3,048.72	2,952.87	95.85	31.807	
12,500.00	7,870.00	5,450.00	5,450.00	67.59	94.20	1.04	-4,238.06	1,857.85	2,987.90	2,893.39	94.51	31.616	
12,600.00	7,870.00	5,450.00	5,450.00	69.04	94.20	1.04	-4,238.06	1,857.85	2,929.22	2,836.09	93.14	31.451	
12,700.00	7,870.00	5,450.00	5,450.00	70.51	94.20	1.04	-4,238.06	1,857.85	2,872.83	2,781.09	91.74	31.316	
12,800.00	7,870.00	5,450.00	5,450.00	71.98	94.20	1.04	-4,238.06	1,857.85	2,818.86	2,728.55	90.31	31.213	
12,900.00	7,870.00	5,450.00	5,450.00	73.47	94.20	1.04	-4,238.06	1,857.85	2,767.45	2,678.59	88.86	31.145	
13,000.00	7,870.00	5,450.00	5,450.00	74.96	94.20	1.04	-4,238.06	1,857.85	2,718.75	2,631.37	87.38	31.116	
13,100.00	7,870.00	5,450.00	5,450.00	76.47	94.20	1.04	-4,238.06	1,857.85	2,672.90	2,587.03	85.87	31.127	
13,200.00	7,870.00	5,450.00	5,450.00	77.99	94.20	1.04	-4,238.06	1,857.85	2,630.06	2,545.71	84.34	31.183	
13,300.00	7,870.00	5,450.00	5,450.00	79.51	94.20	1.04	-4,238.06	1,857.85	2,590.37	2,507.57	82.80	31.284	
13,400.00	7,870.00	5,450.00	5,450.00	81.05	94.20	1.04	-4,238.06	1,857.85	2,553.98	2,472.73	81.25	31.432	
13,500.00	7,870.00	5,450.00	5,450.00	82.59	94.20	1.04	-4,238.06	1,857.85	2,521.04	2,441.32	79.72	31.626	
13,600.00	7,870.00	5,450.00	5,450.00	84.14	94.20	1.04	-4,238.06	1,857.85	2,491.68	2,413.47	78.21	31.859	
13,700.00	7,870.00	5,450.00	5,450.00	85.70	94.20	1.04	-4,238.06	1,857.85	2,466.02	2,389.25	76.77	32.122	
13,800.00	7,870.00	5,450.00	5,450.00	87.26	94.20	1.04	-4,238.06	1,857.85	2,444.19	2,368.74	75.45	32.394	
13,900.00	7,870.00	5,450.00	5,450.00	88.83	94.20	1.04	-4,238.06	1,857.85	2,426.29	2,351.96	74.33	32.640	
14,000.00	7,870.00	5,450.00	5,450.00	90.41	94.20	1.04	-4,238.06	1,857.85	2,412.40	2,338.88	73.53	32.810	
14,100.00	7,870.00	5,450.00	5,450.00	92.00	94.20	1.04	-4,238.06	1,857.85	2,402.60	2,329.42	73.18	32.831	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,450.00	5,450.00	93.59	94.20	1.04	-4,238.06	1,857.85	2,396.94	2,323.47	73.47	32.625	
14,285.95	7,870.00	5,450.00	5,450.00	94.96	94.20	1.04	-4,238.06	1,857.85	2,395.40	2,321.07	74.33	32.226	CC
14,300.00	7,870.00	5,450.00	5,450.00	95.18	94.20	1.04	-4,238.06	1,857.85	2,395.44	2,320.91	74.53	32.141	ES
14,400.00	7,870.00	5,450.00	5,450.00	96.79	94.20	1.04	-4,238.06	1,857.85	2,398.11	2,321.71	76.40	31.389	
14,500.00	7,870.00	5,450.00	5,450.00	98.39	94.20	1.04	-4,238.06	1,857.85	2,404.94	2,325.96	78.98	30.448	
14,600.00	7,870.00	5,450.00	5,450.00	100.00	94.20	1.04	-4,238.06	1,857.85	2,415.90	2,333.79	82.11	29.423	
14,700.00	7,870.00	5,450.00	5,450.00	101.62	94.20	1.04	-4,238.06	1,857.85	2,430.92	2,345.33	85.59	28.403	
14,800.00	7,870.00	5,450.00	5,450.00	103.24	94.20	1.04	-4,238.06	1,857.85	2,449.93	2,360.68	89.25	27.449	
14,900.00	7,870.00	5,450.00	5,450.00	104.87	94.20	1.04	-4,238.06	1,857.85	2,472.85	2,379.85	93.00	26.591	
15,000.00	7,870.00	5,450.00	5,450.00	106.50	94.20	1.04	-4,238.06	1,857.85	2,499.56	2,402.83	96.73	25.841	
15,100.00	7,870.00	5,450.00	5,450.00	108.13	94.20	1.04	-4,238.06	1,857.85	2,529.94	2,429.55	100.39	25.201	
15,200.00	7,870.00	5,450.00	5,450.00	109.77	94.20	1.04	-4,238.06	1,857.85	2,563.87	2,459.92	103.94	24.666	
15,300.00	7,870.00	5,450.00	5,450.00	111.41	94.20	1.04	-4,238.06	1,857.85	2,601.20	2,493.84	107.36	24.229	
15,400.00	7,870.00	5,450.00	5,450.00	113.05	94.20	1.04	-4,238.06	1,857.85	2,641.79	2,531.17	110.61	23.883	
15,500.00	7,870.00	5,450.00	5,450.00	114.70	94.20	1.04	-4,238.06	1,857.85	2,685.49	2,571.79	113.70	23.619	
15,600.00	7,870.00	5,450.00	5,450.00	116.35	94.20	1.04	-4,238.06	1,857.85	2,732.15	2,615.54	116.62	23.428	
15,700.00	7,870.00	5,450.00	5,450.00	118.00	94.20	1.04	-4,238.06	1,857.85	2,781.63	2,662.27	119.36	23.304	
15,800.00	7,870.00	5,450.00	5,450.00	119.66	94.20	1.04	-4,238.06	1,857.85	2,833.78	2,711.85	121.93	23.241	
15,900.00	7,870.00	5,450.00	5,450.00	121.32	94.20	1.04	-4,238.06	1,857.85	2,888.44	2,764.11	124.33	23.232	SF
16,000.00	7,870.00	5,450.00	5,450.00	122.98	94.20	1.04	-4,238.06	1,857.85	2,945.49	2,818.92	126.57	23.272	
16,100.00	7,870.00	5,450.00	5,450.00	124.65	94.20	1.04	-4,238.06	1,857.85	3,004.78	2,876.13	128.65	23.356	
16,200.00	7,870.00	5,450.00	5,450.00	126.32	94.20	1.04	-4,238.06	1,857.85	3,066.19	2,935.60	130.59	23.480	
16,300.00	7,870.00	5,450.00	5,450.00	127.99	94.20	1.04	-4,238.06	1,857.85	3,129.59	2,997.21	132.38	23.640	
16,400.00	7,870.00	5,450.00	5,450.00	129.66	94.20	1.04	-4,238.06	1,857.85	3,194.86	3,060.82	134.05	23.834	
16,500.00	7,870.00	5,450.00	5,450.00	131.33	94.20	1.04	-4,238.06	1,857.85	3,261.90	3,126.31	135.59	24.057	
16,600.00	7,870.00	5,450.00	5,450.00	133.01	94.20	1.04	-4,238.06	1,857.85	3,330.58	3,193.57	137.01	24.308	
16,700.00	7,870.00	5,450.00	5,450.00	134.69	94.20	1.04	-4,238.06	1,857.85	3,400.82	3,262.49	138.33	24.584	
16,800.00	7,870.00	5,450.00	5,450.00	136.37	94.20	1.04	-4,238.06	1,857.85	3,472.52	3,332.97	139.55	24.883	
16,900.00	7,870.00	5,450.00	5,450.00	138.06	94.20	1.04	-4,238.06	1,857.85	3,545.59	3,404.91	140.68	25.203	
17,000.00	7,870.00	5,450.00	5,450.00	139.74	94.20	1.04	-4,238.06	1,857.85	3,619.95	3,478.23	141.72	25.543	
17,100.00	7,870.00	5,450.00	5,450.00	141.43	94.20	1.04	-4,238.06	1,857.85	3,695.52	3,552.83	142.69	25.900	
17,200.00	7,870.00	5,450.00	5,450.00	143.12	94.20	1.04	-4,238.06	1,857.85	3,772.22	3,628.64	143.58	26.273	
17,300.00	7,870.00	5,450.00	5,450.00	144.81	94.20	1.04	-4,238.06	1,857.85	3,849.99	3,705.59	144.40	26.662	
17,400.00	7,870.00	5,450.00	5,450.00	146.50	94.20	1.04	-4,238.06	1,857.85	3,928.77	3,783.61	145.16	27.064	
17,500.00	7,870.00	5,450.00	5,450.00	148.19	94.20	1.04	-4,238.06	1,857.85	4,008.50	3,862.63	145.87	27.480	
17,600.00	7,870.00	5,450.00	5,450.00	149.89	94.20	1.04	-4,238.06	1,857.85	4,089.12	3,942.60	146.52	27.908	
17,700.00	7,870.00	5,450.00	5,450.00	151.59	94.20	1.04	-4,238.06	1,857.85	4,170.58	4,023.45	147.13	28.347	
17,800.00	7,870.00	5,450.00	5,450.00	153.29	94.20	1.04	-4,238.06	1,857.85	4,252.82	4,105.13	147.69	28.796	
17,900.00	7,870.00	5,450.00	5,450.00	154.99	94.20	1.04	-4,238.06	1,857.85	4,335.82	4,187.61	148.21	29.255	
18,000.00	7,870.00	5,450.00	5,450.00	156.69	94.20	1.04	-4,238.06	1,857.85	4,419.52	4,270.82	148.69	29.723	
18,100.00	7,870.00	5,450.00	5,450.00	158.39	94.20	1.04	-4,238.06	1,857.85	4,503.88	4,354.74	149.14	30.199	
18,200.00	7,870.00	5,450.00	5,450.00	160.09	94.20	1.04	-4,238.06	1,857.85	4,588.87	4,439.32	149.56	30.683	
18,300.00	7,870.00	5,450.00	5,450.00	161.80	94.20	1.04	-4,238.06	1,857.85	4,674.46	4,524.51	149.94	31.175	
18,400.00	7,870.00	5,450.00	5,450.00	163.51	94.20	1.04	-4,238.06	1,857.85	4,760.61	4,610.30	150.30	31.673	
18,455.45	7,870.00	5,450.00	5,450.00	164.45	94.20	1.04	-4,238.06	1,857.85	4,808.61	4,658.11	150.49	31.952	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	154.44	-4,569.54	2,185.54	5,065.31				
100.00	100.00	71.37	71.37	0.13	0.11	154.44	-4,569.76	2,185.42	5,065.49	5,065.24	0.25	N/A	
200.00	200.00	166.58	166.58	0.49	0.40	154.45	-4,570.52	2,184.98	5,066.01	5,065.11	0.89	5,680.087	
300.00	300.00	285.84	285.83	0.85	0.83	154.46	-4,571.22	2,184.48	5,066.36	5,064.68	1.68	3,019.964	
400.00	400.00	381.15	381.15	1.21	1.17	154.46	-4,571.42	2,184.35	5,066.50	5,064.12	2.38	2,132.623	
500.00	500.00	482.93	482.92	1.57	1.53	154.46	-4,571.66	2,184.36	5,066.71	5,063.62	3.10	1,636.136	
600.00	600.00	613.99	613.98	1.93	1.99	154.47	-4,571.90	2,183.70	5,066.68	5,062.76	3.92	1,292.795	
700.00	700.00	780.17	780.14	2.29	2.57	154.48	-4,570.50	2,181.73	5,065.30	5,060.44	4.85	1,044.134	
800.00	800.00	874.60	874.56	2.64	2.89	154.49	-4,569.20	2,180.67	5,063.57	5,058.03	5.54	914.732	
900.00	900.00	975.10	975.04	3.00	3.24	154.49	-4,567.88	2,179.70	5,061.96	5,055.72	6.24	810.835	
1,000.00	1,000.00	1,112.02	1,111.93	3.36	3.72	154.49	-4,565.57	2,178.32	5,060.03	5,052.96	7.08	714.843	
1,100.00	1,100.00	1,181.70	1,181.60	3.72	3.96	154.50	-4,564.40	2,177.58	5,058.03	5,050.34	7.68	658.399	
1,200.00	1,200.00	1,274.45	1,274.34	4.08	4.29	154.50	-4,563.10	2,176.74	5,056.37	5,048.00	8.37	604.311	
1,300.00	1,300.00	1,363.24	1,363.12	4.44	4.60	154.50	-4,561.91	2,176.05	5,054.82	5,045.79	9.04	559.199	
1,387.48	1,387.47	1,436.36	1,436.23	4.75	4.86	111.58	-4,561.22	2,175.33	5,054.20	5,044.59	9.61	525.902	
1,400.00	1,399.98	1,446.60	1,446.47	4.79	4.90	111.59	-4,561.14	2,175.23	5,054.22	5,044.52	9.69	521.507	
1,500.00	1,499.84	1,532.24	1,532.10	5.15	5.21	111.62	-4,560.62	2,174.51	5,055.23	5,044.88	10.35	488.339	
1,600.00	1,599.45	1,629.55	1,629.41	5.51	5.55	111.67	-4,560.19	2,173.74	5,057.71	5,046.66	11.06	457.398	
1,700.00	1,698.70	1,727.86	1,727.71	5.87	5.90	111.73	-4,559.73	2,172.86	5,061.44	5,049.66	11.77	429.916	
1,800.00	1,797.47	1,808.16	1,808.01	6.24	6.19	111.77	-4,559.58	2,172.18	5,066.76	5,054.33	12.43	407.501	
1,900.00	1,895.62	1,908.18	1,908.03	6.63	6.55	111.86	-4,559.63	2,171.15	5,073.58	5,060.40	13.18	385.000	
2,000.00	1,993.06	2,005.78	2,005.62	7.04	6.90	111.95	-4,559.72	2,170.04	5,081.76	5,067.83	13.93	364.767	
2,100.00	2,089.64	2,121.08	2,120.91	7.48	7.31	112.10	-4,559.62	2,168.51	5,091.11	5,076.33	14.77	344.673	
2,200.00	2,185.27	2,215.27	2,215.09	7.94	7.65	112.20	-4,559.39	2,167.32	5,101.79	5,086.23	15.56	327.860	
2,300.00	2,279.82	2,317.63	2,317.45	8.45	8.01	112.33	-4,559.05	2,165.96	5,113.86	5,097.45	16.41	311.621	
2,400.00	2,373.17	2,406.62	2,406.42	8.99	8.33	112.42	-4,558.76	2,164.74	5,127.44	5,110.20	17.25	297.318	
2,500.00	2,465.21	2,509.64	2,509.44	9.58	8.70	112.57	-4,558.24	2,163.58	5,142.51	5,124.34	18.17	283.056	
2,574.08	2,532.50	2,581.55	2,581.34	10.04	8.96	112.66	-4,557.73	2,162.84	5,154.61	5,135.75	18.86	273.315	
2,600.00	2,555.89	2,608.77	2,608.56	10.21	9.05	112.79	-4,557.51	2,162.56	5,158.98	5,139.87	19.11	269.914	
2,700.00	2,646.16	2,721.77	2,721.54	10.88	9.46	113.30	-4,556.32	2,161.08	5,175.74	5,155.61	20.13	257.063	
2,800.00	2,736.44	2,798.66	2,798.42	11.57	9.73	113.65	-4,555.56	2,159.90	5,192.81	5,171.77	21.04	246.794	
2,900.00	2,826.71	2,886.77	2,886.51	12.27	10.05	114.05	-4,554.97	2,158.20	5,210.31	5,188.31	22.00	236.811	
3,000.00	2,916.98	2,970.42	2,970.14	13.00	10.35	114.43	-4,554.61	2,156.24	5,228.19	5,205.24	22.96	227.740	
3,100.00	3,007.25	3,050.35	3,050.05	13.73	10.64	114.80	-4,554.37	2,154.40	5,246.52	5,222.61	23.91	219.469	
3,200.00	3,097.52	3,140.76	3,140.44	14.48	10.96	115.21	-4,554.23	2,152.41	5,265.30	5,240.40	24.90	211.469	
3,300.00	3,187.80	3,237.53	3,237.18	15.23	11.31	115.65	-4,553.89	2,150.21	5,284.19	5,258.27	25.92	203.866	
3,400.00	3,278.07	3,319.36	3,318.99	15.99	11.61	116.01	-4,553.59	2,148.59	5,303.46	5,276.57	26.89	197.233	
3,500.00	3,368.34	3,406.64	3,406.25	16.76	11.92	116.40	-4,553.38	2,146.79	5,323.10	5,295.22	27.88	190.923	
3,600.00	3,458.61	3,482.07	3,481.66	17.54	12.19	116.73	-4,553.33	2,145.21	5,343.19	5,314.36	28.83	185.340	
3,700.00	3,548.89	3,572.14	3,571.72	18.32	12.51	117.12	-4,553.37	2,143.50	5,363.70	5,333.87	29.83	179.792	
3,800.00	3,639.16	3,659.56	3,659.12	19.10	12.83	117.50	-4,553.34	2,141.93	5,384.47	5,353.64	30.83	174.670	
3,900.00	3,729.43	3,753.28	3,752.83	19.89	13.16	117.91	-4,553.40	2,140.09	5,405.56	5,373.71	31.84	169.753	
4,000.00	3,819.70	3,846.17	3,845.70	20.69	13.50	118.31	-4,553.33	2,138.26	5,426.79	5,393.94	32.86	165.164	
4,100.00	3,909.98	3,930.50	3,930.02	21.48	13.80	118.67	-4,553.27	2,136.70	5,448.35	5,414.52	33.84	161.020	
4,200.00	4,000.25	4,019.75	4,019.25	22.28	14.12	119.04	-4,553.29	2,135.13	5,470.28	5,435.45	34.83	157.042	
4,300.00	4,090.52	4,134.53	4,134.01	23.08	14.53	119.52	-4,552.91	2,133.33	5,492.20	5,456.28	35.93	152.877	
4,400.00	4,180.79	4,240.11	4,239.59	23.88	14.91	119.95	-4,552.00	2,132.34	5,514.08	5,477.10	36.98	149.116	
4,500.00	4,271.06	4,330.82	4,330.29	24.69	15.23	120.31	-4,550.88	2,132.03	5,536.00	5,498.03	37.97	145.802	
4,600.00	4,361.34	4,402.99	4,402.46	25.49	15.48	120.59	-4,550.11	2,131.96	5,558.38	5,519.50	38.89	142.940	
4,700.00	4,451.61	4,482.31	4,481.78	26.30	15.75	120.90	-4,549.50	2,131.87	5,581.23	5,541.41	39.83	140.133	
4,800.00	4,541.88	4,572.08	4,571.54	27.11	16.07	121.25	-4,548.98	2,131.50	5,604.43	5,563.62	40.81	137.327	
4,900.00	4,632.15	4,705.60	4,705.04	27.92	16.55	121.78	-4,547.99	2,129.98	5,627.60	5,585.64	41.96	134.110	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,837.44	4,836.85	28.74	17.02	122.30	-4,545.98	2,127.65	5,650.14	5,607.03	43.10	131.083	
5,100.00	4,812.70	4,932.67	4,932.05	29.55	17.36	122.67	-4,544.18	2,125.93	5,672.60	5,628.50	44.10	128.627	
5,200.00	4,902.97	5,015.98	5,015.33	30.37	17.66	122.99	-4,542.63	2,124.43	5,695.34	5,650.28	45.05	126.422	
5,300.00	4,993.24	5,091.51	5,090.84	31.18	17.93	123.28	-4,541.40	2,122.99	5,718.49	5,672.52	45.97	124.406	
5,400.00	5,083.51	5,171.34	5,170.64	32.00	18.22	123.59	-4,540.31	2,121.33	5,742.07	5,695.17	46.90	122.444	
5,500.00	5,173.79	5,257.66	5,256.94	32.82	18.53	123.92	-4,539.27	2,119.41	5,766.01	5,718.16	47.85	120.510	
5,600.00	5,264.06	5,358.35	5,357.59	33.63	18.89	124.31	-4,538.01	2,117.22	5,790.14	5,741.29	48.85	118.527	
5,700.00	5,354.33	5,457.57	5,456.78	34.45	19.25	124.68	-4,536.54	2,114.97	5,814.28	5,764.43	49.85	116.644	
5,800.00	5,444.60	5,540.67	5,539.85	35.27	19.55	125.00	-4,535.29	2,113.07	5,838.62	5,787.84	50.77	114.991	
5,900.00	5,534.88	5,618.14	5,617.30	36.09	19.82	125.29	-4,534.24	2,111.64	5,863.38	5,811.70	51.68	113.461	
6,000.00	5,625.15	5,703.37	5,702.50	36.91	20.13	125.60	-4,533.18	2,110.22	5,888.47	5,835.86	52.61	111.931	
6,100.00	5,715.42	5,768.88	5,768.00	37.74	20.37	125.83	-4,532.51	2,109.30	5,914.01	5,860.55	53.46	110.634	
6,200.00	5,805.69	5,853.33	5,852.45	38.56	20.67	126.14	-4,531.88	2,108.40	5,940.04	5,885.66	54.38	109.240	
6,300.00	5,895.96	6,006.26	6,005.36	39.38	21.22	126.68	-4,530.11	2,106.42	5,965.95	5,910.39	55.57	107.363	
6,400.00	5,986.24	6,134.96	6,134.02	40.20	21.67	127.13	-4,527.13	2,105.21	5,990.94	5,934.29	56.66	105.743	
6,500.00	6,076.51	6,208.69	6,207.71	41.03	21.94	127.39	-4,525.48	2,103.79	6,016.13	5,958.61	57.52	104.588	
6,600.00	6,166.78	6,271.92	6,270.92	41.85	22.16	127.61	-4,524.33	2,102.36	6,041.85	5,983.51	58.34	103.555	
6,700.00	6,257.05	6,330.99	6,329.96	42.67	22.38	127.82	-4,523.51	2,101.15	6,068.20	6,009.05	59.15	102.598	
6,800.00	6,347.33	6,800.00	6,438.88	43.50	24.05	128.20	-4,522.46	2,098.61	6,095.13	6,033.70	61.43	99.227	
6,900.00	6,437.60	6,558.98	6,557.88	44.32	23.19	128.60	-4,520.23	2,097.18	6,121.45	6,060.28	61.18	100.062	
7,000.00	6,527.87	6,737.66	6,736.49	45.15	23.81	129.17	-4,515.50	2,097.58	6,147.61	6,085.17	62.44	98.457	
7,100.00	6,618.14	6,800.00	6,798.79	45.98	24.03	129.37	-4,513.20	2,098.07	6,172.94	6,109.69	63.24	97.608	
7,200.00	6,708.41	6,852.59	6,851.35	46.80	24.21	129.53	-4,511.54	2,098.52	6,198.96	6,134.96	64.00	96.860	
7,300.00	6,798.69	6,900.00	6,898.75	47.63	24.37	129.67	-4,510.61	2,098.95	6,226.00	6,161.27	64.73	96.185	
7,400.00	6,888.96	7,028.19	7,026.90	48.45	24.82	130.08	-4,508.03	2,098.14	6,253.13	6,187.34	65.78	95.057	
7,500.00	6,979.23	7,087.75	7,086.45	49.28	25.03	130.27	-4,506.80	2,098.00	6,280.40	6,213.84	66.56	94.360	
7,600.00	7,069.50	7,150.36	7,149.06	50.11	25.25	130.46	-4,505.76	2,098.40	6,308.26	6,240.92	67.34	93.677	
7,692.09	7,152.63	7,210.69	7,209.38	50.87	25.46	130.65	-4,505.05	2,098.39	6,334.41	6,266.34	68.07	93.060	
7,700.00	7,159.79	7,217.11	7,215.79	50.93	25.48	129.47	-4,504.98	2,098.36	6,336.62	6,268.49	68.14	93.001	
7,750.00	7,205.70	7,258.11	7,256.79	51.32	25.63	120.60	-4,504.60	2,098.09	6,348.21	6,279.64	68.56	92.592	
7,800.00	7,252.52	7,299.73	7,298.41	51.66	25.77	109.03	-4,504.26	2,097.61	6,355.59	6,286.61	68.98	92.134	
7,850.00	7,299.89	7,366.94	7,365.61	51.96	26.02	95.00	-4,503.64	2,096.69	6,358.64	6,289.14	69.50	91.490	
7,900.00	7,347.44	7,429.66	7,428.32	52.20	26.24	79.82	-4,502.87	2,095.85	6,357.23	6,287.24	69.98	90.838	
7,950.00	7,394.83	7,487.26	7,485.91	52.39	26.45	65.61	-4,502.07	2,094.85	6,351.43	6,281.00	70.43	90.187	
8,000.00	7,441.68	7,500.00	7,498.64	52.53	26.49	53.72	-4,501.88	2,094.59	6,341.42	6,270.76	70.66	89.751	
8,050.00	7,487.65	7,539.76	7,538.40	52.62	26.63	44.58	-4,501.42	2,093.90	6,327.28	6,256.30	70.98	89.146	
8,100.00	7,532.37	7,561.49	7,560.12	52.67	26.71	37.62	-4,501.27	2,093.65	6,309.26	6,238.06	71.20	88.612	
8,150.00	7,575.52	7,600.00	7,598.63	52.67	26.85	32.39	-4,501.18	2,093.41	6,287.49	6,216.01	71.48	87.964	
8,200.00	7,616.76	7,618.70	7,617.33	52.63	26.92	28.31	-4,501.18	2,093.35	6,261.94	6,190.29	71.65	87.395	
8,250.00	7,655.77	7,800.00	7,798.61	52.55	27.55	25.64	-4,498.90	2,093.38	6,232.39	6,159.89	72.49	85.971	
8,300.00	7,692.27	7,800.00	7,798.61	52.44	27.55	23.03	-4,498.90	2,093.38	6,199.11	6,126.55	72.56	85.435	
8,350.00	7,725.97	7,800.00	7,798.61	52.29	27.55	20.87	-4,498.90	2,093.38	6,162.91	6,090.30	72.61	84.879	
8,400.00	7,756.62	7,800.00	7,798.61	52.12	27.55	19.03	-4,498.90	2,093.38	6,124.02	6,051.38	72.64	84.304	
8,450.00	7,783.98	7,800.00	7,798.61	51.92	27.55	17.39	-4,498.90	2,093.38	6,082.68	6,010.02	72.66	83.712	
8,500.00	7,807.85	7,800.00	7,798.61	51.70	27.55	15.82	-4,498.90	2,093.38	6,039.15	5,966.48	72.67	83.103	
8,550.00	7,828.05	7,800.00	7,798.61	51.45	27.55	14.19	-4,498.90	2,093.38	5,993.74	5,921.07	72.67	82.479	
8,600.00	7,844.41	7,800.00	7,798.61	51.20	27.55	12.23	-4,498.90	2,093.38	5,946.73	5,874.07	72.66	81.842	
8,650.00	7,856.82	7,800.00	7,798.61	50.93	27.55	9.30	-4,498.90	2,093.38	5,898.47	5,825.82	72.65	81.192	
8,700.00	7,865.18	7,800.00	7,798.61	50.65	27.55	3.34	-4,498.90	2,093.38	5,849.28	5,776.65	72.63	80.534	
8,750.00	7,869.43	7,800.00	7,798.61	50.36	27.55	-19.42	-4,498.90	2,093.38	5,799.52	5,726.91	72.61	79.868	
8,776.25	7,870.00	7,800.00	7,798.61	50.21	27.55	-71.80	-4,498.90	2,093.38	5,773.29	5,700.69	72.61	79.516	
8,800.00	7,870.00	7,800.00	7,798.61	50.08	27.55	-71.80	-4,498.90	2,093.38	5,749.56	5,676.97	72.60	79.198	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,800.00	7,798.61	49.53	27.55	-71.80	-4,498.90	2,093.38	5,649.63	5,577.06	72.56	77.859	
9,000.00	7,870.00	7,800.00	7,798.61	49.01	27.55	-71.80	-4,498.90	2,093.38	5,549.69	5,477.16	72.53	76.519	
9,100.00	7,870.00	7,800.00	7,798.61	48.52	27.55	-71.80	-4,498.90	2,093.38	5,449.76	5,377.27	72.49	75.177	
9,200.00	7,870.00	7,800.00	7,798.61	48.06	27.55	-71.80	-4,498.90	2,093.38	5,349.83	5,277.37	72.46	73.835	
9,300.00	7,870.00	7,800.00	7,798.61	47.63	27.55	-71.80	-4,498.90	2,093.38	5,249.90	5,177.48	72.42	72.493	
9,400.00	7,870.00	7,800.00	7,798.61	47.22	27.55	-71.80	-4,498.90	2,093.38	5,149.98	5,077.60	72.38	71.149	
9,500.00	7,870.00	7,800.00	7,798.61	46.83	27.55	-71.80	-4,498.90	2,093.38	5,050.06	4,977.71	72.35	69.805	
9,600.00	7,870.00	7,800.00	7,798.61	46.48	27.55	-71.80	-4,498.90	2,093.38	4,950.14	4,877.84	72.31	68.460	
9,700.00	7,870.00	7,800.00	7,798.61	46.14	27.55	-71.80	-4,498.90	2,093.38	4,850.23	4,777.96	72.27	67.114	
9,800.00	7,870.00	7,800.00	7,798.61	45.83	27.55	-71.80	-4,498.90	2,093.38	4,750.32	4,678.09	72.23	65.768	
9,900.00	7,870.00	7,800.00	7,798.61	45.54	27.55	-71.80	-4,498.90	2,093.38	4,650.41	4,578.22	72.19	64.421	
10,000.00	7,870.00	7,800.00	7,798.61	45.27	27.55	-71.80	-4,498.90	2,093.38	4,550.51	4,478.36	72.15	63.074	
10,100.00	7,870.00	7,800.00	7,798.61	45.03	27.55	-71.80	-4,498.90	2,093.38	4,450.61	4,378.51	72.10	61.726	
10,200.00	7,870.00	7,800.00	7,798.61	44.82	27.55	-71.80	-4,498.90	2,093.38	4,350.72	4,278.66	72.06	60.377	
10,300.00	7,870.00	7,800.00	7,798.61	44.66	27.55	-71.80	-4,498.90	2,093.38	4,250.83	4,178.81	72.01	59.028	
10,400.00	7,870.00	7,800.00	7,798.61	44.56	27.55	-71.80	-4,498.90	2,093.38	4,150.94	4,078.98	71.97	57.679	
10,500.00	7,870.00	7,800.00	7,798.61	44.58	27.55	-71.80	-4,498.90	2,093.38	4,051.07	3,979.15	71.92	56.329	
10,600.00	7,870.00	7,800.00	7,798.61	44.82	27.55	-71.80	-4,498.90	2,093.38	3,951.20	3,879.33	71.87	54.979	
10,700.00	7,870.00	7,800.00	7,798.61	45.36	27.55	-71.80	-4,498.90	2,093.38	3,851.33	3,779.52	71.81	53.629	
10,800.00	7,870.00	7,800.00	7,798.61	46.15	27.55	-71.80	-4,498.90	2,093.38	3,751.47	3,679.71	71.76	52.278	
10,900.00	7,870.00	7,800.00	7,798.61	47.09	27.55	-71.80	-4,498.90	2,093.38	3,651.62	3,579.92	71.70	50.927	
11,000.00	7,870.00	7,800.00	7,798.61	48.13	27.55	-71.80	-4,498.90	2,093.38	3,551.78	3,480.14	71.64	49.575	
11,100.00	7,870.00	7,800.00	7,798.61	49.22	27.55	-71.80	-4,498.90	2,093.38	3,451.95	3,380.37	71.58	48.223	
11,200.00	7,870.00	7,800.00	7,798.61	50.37	27.55	-71.80	-4,498.90	2,093.38	3,352.13	3,280.61	71.52	46.872	
11,300.00	7,870.00	7,800.00	7,798.61	51.55	27.55	-71.80	-4,498.90	2,093.38	3,252.32	3,180.87	71.45	45.519	
11,400.00	7,870.00	7,800.00	7,798.61	52.76	27.55	-71.80	-4,498.90	2,093.38	3,152.52	3,081.14	71.38	44.167	
11,500.00	7,870.00	7,800.00	7,798.61	54.00	27.55	-71.80	-4,498.90	2,093.38	3,052.73	2,981.43	71.30	42.815	
11,600.00	7,870.00	7,800.00	7,798.61	55.27	27.55	-71.80	-4,498.90	2,093.38	2,952.96	2,881.74	71.22	41.462	
11,700.00	7,870.00	7,800.00	7,798.61	56.56	27.55	-71.80	-4,498.90	2,093.38	2,853.21	2,782.07	71.14	40.110	
11,800.00	7,870.00	7,800.00	7,798.61	57.88	27.55	-71.80	-4,498.90	2,093.38	2,753.47	2,682.43	71.04	38.757	
11,900.00	7,870.00	7,800.00	7,798.61	59.21	27.55	-71.80	-4,498.90	2,093.38	2,653.75	2,582.80	70.95	37.404	
12,000.00	7,870.00	7,800.00	7,798.61	60.57	27.55	-71.80	-4,498.90	2,093.38	2,554.06	2,483.21	70.85	36.051	
12,100.00	7,870.00	7,800.00	7,798.61	61.94	27.55	-71.80	-4,498.90	2,093.38	2,454.39	2,383.65	70.74	34.698	
12,200.00	7,870.00	7,800.00	7,798.61	63.33	27.55	-71.80	-4,498.90	2,093.38	2,354.74	2,284.13	70.62	33.345	
12,300.00	7,870.00	7,800.00	7,798.61	64.74	27.55	-71.80	-4,498.90	2,093.38	2,255.13	2,184.64	70.49	31.992	
12,400.00	7,870.00	7,800.00	7,798.61	66.16	27.55	-71.80	-4,498.90	2,093.38	2,155.56	2,085.20	70.35	30.639	
12,500.00	7,870.00	7,800.00	7,798.61	67.59	27.55	-71.80	-4,498.90	2,093.38	2,056.02	1,985.82	70.21	29.286	
12,600.00	7,870.00	7,800.00	7,798.61	69.04	27.55	-71.80	-4,498.90	2,093.38	1,956.54	1,886.49	70.05	27.932	
12,700.00	7,870.00	7,800.00	7,798.61	70.51	27.55	-71.80	-4,498.90	2,093.38	1,857.10	1,787.23	69.87	26.578	
12,800.00	7,870.00	7,800.00	7,798.61	71.98	27.55	-71.80	-4,498.90	2,093.38	1,757.74	1,688.05	69.69	25.224	
12,900.00	7,870.00	7,800.00	7,798.61	73.47	27.55	-71.80	-4,498.90	2,093.38	1,658.45	1,588.96	69.48	23.869	
13,000.00	7,870.00	7,800.00	7,798.61	74.96	27.55	-71.80	-4,498.90	2,093.38	1,559.25	1,489.99	69.26	22.513	
13,100.00	7,870.00	7,800.00	7,798.61	76.47	27.55	-71.80	-4,498.90	2,093.38	1,460.15	1,391.14	69.02	21.156	
13,200.00	7,870.00	7,800.00	7,798.61	77.99	27.55	-71.80	-4,498.90	2,093.38	1,361.20	1,292.44	68.76	19.797	
13,300.00	7,870.00	7,800.00	7,798.61	79.51	27.55	-71.80	-4,498.90	2,093.38	1,262.40	1,193.93	68.48	18.435	
13,400.00	7,870.00	7,800.00	7,798.61	81.05	27.55	-71.80	-4,498.90	2,093.38	1,163.81	1,095.64	68.18	17.070	
13,500.00	7,870.00	7,800.00	7,798.61	82.59	27.55	-71.80	-4,498.90	2,093.38	1,065.49	997.62	67.87	15.699	
13,600.00	7,870.00	7,800.00	7,798.61	84.14	27.55	-71.80	-4,498.90	2,093.38	967.51	899.94	67.56	14.320	
13,700.00	7,870.00	7,800.00	7,798.61	85.70	27.55	-71.80	-4,498.90	2,093.38	869.99	802.70	67.29	12.929	
13,800.00	7,870.00	7,800.00	7,798.61	87.26	27.55	-71.80	-4,498.90	2,093.38	773.10	705.98	67.11	11.519	
13,900.00	7,870.00	7,800.00	7,798.61	88.83	27.55	-71.80	-4,498.90	2,093.38	677.11	609.95	67.16	10.082	
14,000.00	7,870.00	7,800.00	7,798.61	90.41	27.55	-71.80	-4,498.90	2,093.38	582.48	514.78	67.70	8.604	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,800.00	7,798.61	92.00	27.55	-71.80	-4,498.90	2,093.38	489.99	420.70	69.29	7.071	
14,200.00	7,870.00	7,800.00	7,798.61	93.59	27.55	-71.80	-4,498.90	2,093.38	401.12	328.05	73.07	5.489	
14,300.00	7,870.00	7,800.00	7,798.61	95.18	27.55	-71.80	-4,498.90	2,093.38	318.91	237.75	81.15	3.930	
14,400.00	7,870.00	7,800.00	7,798.61	96.79	27.55	-71.80	-4,498.90	2,093.38	250.01	153.81	96.20	2.599	
14,500.00	7,870.00	7,800.00	7,798.61	98.39	27.55	-71.80	-4,498.90	2,093.38	208.11	91.85	116.26	1.790	
14,545.98	7,870.00	7,800.00	7,798.61	99.13	27.55	-71.80	-4,498.90	2,093.38	202.96	79.71	123.25	1.647	CC, ES, SF
14,600.00	7,870.00	7,800.00	7,798.61	100.00	27.55	-71.80	-4,498.90	2,093.38	210.03	83.44	126.59	1.659	
14,700.00	7,870.00	7,800.00	7,798.61	101.62	27.55	-71.80	-4,498.90	2,093.38	254.79	133.46	121.33	2.100	
14,800.00	7,870.00	7,800.00	7,798.61	103.24	27.55	-71.80	-4,498.90	2,093.38	325.15	213.14	112.01	2.903	
14,900.00	7,870.00	7,800.00	7,798.61	104.87	27.55	-71.80	-4,498.90	2,093.38	408.08	303.73	104.35	3.911	
15,000.00	7,870.00	7,800.00	7,798.61	106.50	27.55	-71.80	-4,498.90	2,093.38	497.32	398.54	98.79	5.034	
15,100.00	7,870.00	7,800.00	7,798.61	108.13	27.55	-71.80	-4,498.90	2,093.38	590.03	495.26	94.77	6.226	
15,200.00	7,870.00	7,800.00	7,798.61	109.77	27.55	-71.80	-4,498.90	2,093.38	684.79	592.98	91.81	7.458	
15,300.00	7,870.00	7,800.00	7,798.61	111.41	27.55	-71.80	-4,498.90	2,093.38	780.86	691.29	89.57	8.718	
15,400.00	7,870.00	7,800.00	7,798.61	113.05	27.55	-71.80	-4,498.90	2,093.38	877.81	789.97	87.84	9.994	
15,500.00	7,870.00	7,800.00	7,798.61	114.70	27.55	-71.80	-4,498.90	2,093.38	975.37	888.91	86.46	11.281	
15,600.00	7,870.00	7,800.00	7,798.61	116.35	27.55	-71.80	-4,498.90	2,093.38	1,073.38	988.04	85.34	12.577	
15,700.00	7,870.00	7,800.00	7,798.61	118.00	27.55	-71.80	-4,498.90	2,093.38	1,171.73	1,087.30	84.43	13.878	
15,800.00	7,870.00	7,800.00	7,798.61	119.66	27.55	-71.80	-4,498.90	2,093.38	1,270.34	1,186.67	83.67	15.183	
15,900.00	7,870.00	7,800.00	7,798.61	121.32	27.55	-71.80	-4,498.90	2,093.38	1,369.15	1,286.12	83.03	16.490	
16,000.00	7,870.00	7,800.00	7,798.61	122.98	27.55	-71.80	-4,498.90	2,093.38	1,468.12	1,385.64	82.48	17.799	
16,100.00	7,870.00	7,800.00	7,798.61	124.65	27.55	-71.80	-4,498.90	2,093.38	1,567.22	1,485.21	82.01	19.110	
16,200.00	7,870.00	7,800.00	7,798.61	126.32	27.55	-71.80	-4,498.90	2,093.38	1,666.43	1,584.82	81.61	20.420	
16,300.00	7,870.00	7,800.00	7,798.61	127.99	27.55	-71.80	-4,498.90	2,093.38	1,765.72	1,684.47	81.25	21.731	
16,400.00	7,870.00	7,800.00	7,798.61	129.66	27.55	-71.80	-4,498.90	2,093.38	1,865.10	1,784.15	80.94	23.042	
16,500.00	7,870.00	7,800.00	7,798.61	131.33	27.55	-71.80	-4,498.90	2,093.38	1,964.53	1,883.86	80.67	24.352	
16,600.00	7,870.00	7,800.00	7,798.61	133.01	27.55	-71.80	-4,498.90	2,093.38	2,064.02	1,983.59	80.43	25.662	
16,700.00	7,870.00	7,800.00	7,798.61	134.69	27.55	-71.80	-4,498.90	2,093.38	2,163.56	2,083.35	80.22	26.971	
16,800.00	7,870.00	7,800.00	7,798.61	136.37	27.55	-71.80	-4,498.90	2,093.38	2,263.14	2,183.11	80.03	28.280	
16,900.00	7,870.00	7,800.00	7,798.61	138.06	27.55	-71.80	-4,498.90	2,093.38	2,362.75	2,282.90	79.86	29.587	
17,000.00	7,870.00	7,800.00	7,798.61	139.74	27.55	-71.80	-4,498.90	2,093.38	2,462.40	2,382.69	79.71	30.893	
17,100.00	7,870.00	7,800.00	7,798.61	141.43	27.55	-71.80	-4,498.90	2,093.38	2,562.07	2,482.50	79.57	32.199	
17,200.00	7,870.00	7,800.00	7,798.61	143.12	27.55	-71.80	-4,498.90	2,093.38	2,661.77	2,582.32	79.45	33.503	
17,300.00	7,870.00	7,800.00	7,798.61	144.81	27.55	-71.80	-4,498.90	2,093.38	2,761.49	2,682.15	79.34	34.805	
17,400.00	7,870.00	7,800.00	7,798.61	146.50	27.55	-71.80	-4,498.90	2,093.38	2,861.23	2,781.98	79.24	36.106	
17,500.00	7,870.00	7,788.98	7,787.59	148.19	27.52	-68.88	-4,499.18	2,093.24	2,960.95	2,881.74	79.21	37.380	
17,600.00	7,870.00	7,787.38	7,785.99	149.89	27.51	-68.47	-4,499.21	2,093.22	3,060.72	2,981.58	79.14	38.675	
17,700.00	7,870.00	7,785.82	7,784.43	151.59	27.50	-68.07	-4,499.25	2,093.20	3,160.50	3,081.42	79.08	39.968	
17,800.00	7,870.00	7,784.28	7,782.90	153.29	27.50	-67.67	-4,499.29	2,093.18	3,260.29	3,181.27	79.02	41.260	
17,900.00	7,870.00	7,782.78	7,781.40	154.99	27.49	-67.29	-4,499.32	2,093.17	3,360.09	3,281.12	78.97	42.550	
18,000.00	7,870.00	7,781.31	7,779.93	156.69	27.49	-66.92	-4,499.36	2,093.15	3,459.90	3,380.98	78.92	43.839	
18,100.00	7,870.00	7,779.87	7,778.49	158.39	27.48	-66.55	-4,499.39	2,093.14	3,559.72	3,480.84	78.88	45.127	
18,200.00	7,870.00	7,778.46	7,777.07	160.09	27.48	-66.20	-4,499.42	2,093.12	3,659.55	3,580.70	78.85	46.412	
18,300.00	7,870.00	7,777.07	7,775.69	161.80	27.47	-65.85	-4,499.45	2,093.11	3,759.39	3,680.57	78.82	47.697	
18,400.00	7,870.00	7,775.71	7,774.33	163.51	27.47	-65.52	-4,499.48	2,093.10	3,859.23	3,780.44	78.79	48.979	
18,455.45	7,870.00	7,774.97	7,773.59	164.45	27.47	-65.33	-4,499.50	2,093.09	3,914.60	3,835.82	78.78	49.690	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	16.00	16.00	0.00	0.12	163.10	-7,180.75	2,181.57	7,504.83				
100.00	100.00	116.00	116.00	0.13	1.06	163.10	-7,180.75	2,181.57	7,504.83	7,503.64	1.19	6,304.714	
200.00	200.00	216.00	216.00	0.49	2.80	163.10	-7,180.75	2,181.57	7,504.83	7,501.54	3.29	2,278.228	
300.00	300.00	316.00	316.00	0.85	4.55	163.10	-7,180.75	2,181.57	7,504.83	7,499.43	5.40	1,390.310	
400.00	400.00	416.00	416.00	1.21	6.29	163.10	-7,180.75	2,181.57	7,504.83	7,497.33	7.50	1,000.410	
500.00	500.00	516.00	516.00	1.57	8.04	163.10	-7,180.75	2,181.57	7,504.83	7,495.22	9.61	781.301	
600.00	600.00	616.00	616.00	1.93	9.78	163.10	-7,180.75	2,181.57	7,504.83	7,493.12	11.71	640.926	
700.00	700.00	716.00	716.00	2.29	11.53	163.10	-7,180.75	2,181.57	7,504.83	7,491.02	13.81	543.310	
800.00	800.00	816.00	816.00	2.64	13.27	163.10	-7,180.75	2,181.57	7,504.83	7,488.91	15.92	471.499	
900.00	900.00	916.00	916.00	3.00	15.02	163.10	-7,180.75	2,181.57	7,504.83	7,486.81	18.02	416.455	
1,000.00	1,000.00	1,016.00	1,016.00	3.36	16.76	163.10	-7,180.75	2,181.57	7,504.83	7,484.71	20.12	372.919	
1,100.00	1,100.00	1,116.00	1,116.00	3.72	18.51	163.10	-7,180.75	2,181.57	7,504.83	7,482.60	22.23	337.624	
1,200.00	1,200.00	1,216.00	1,216.00	4.08	20.25	163.10	-7,180.75	2,181.57	7,504.83	7,480.50	24.33	308.433	
1,300.00	1,300.00	1,316.00	1,316.00	4.44	22.00	163.10	-7,180.75	2,181.57	7,504.83	7,478.39	26.44	283.887	
1,400.00	1,399.98	1,415.98	1,415.98	4.79	23.74	120.15	-7,180.75	2,181.57	7,505.71	7,477.17	28.54	263.015	
1,500.00	1,499.84	1,515.84	1,515.84	5.15	25.49	120.14	-7,180.75	2,181.57	7,508.34	7,477.70	30.64	245.086	
1,600.00	1,599.45	1,615.45	1,615.45	5.51	27.23	120.12	-7,180.75	2,181.57	7,512.73	7,479.99	32.73	229.518	
1,700.00	1,698.70	1,714.70	1,714.70	5.87	28.96	120.10	-7,180.75	2,181.57	7,518.88	7,484.05	34.83	215.881	
1,800.00	1,797.47	1,813.47	1,813.47	6.24	30.68	120.06	-7,180.75	2,181.57	7,526.79	7,489.86	36.92	203.842	
1,900.00	1,895.62	1,911.62	1,911.62	6.63	32.40	120.02	-7,180.75	2,181.57	7,536.47	7,497.45	39.02	193.136	
2,000.00	1,993.06	2,009.06	2,009.06	7.04	34.10	119.96	-7,180.75	2,181.57	7,547.94	7,506.82	41.12	183.553	
2,100.00	2,089.64	2,105.64	2,105.64	7.48	35.78	119.90	-7,180.75	2,181.57	7,561.19	7,517.97	43.23	174.924	
2,200.00	2,185.27	2,201.27	2,201.27	7.94	37.45	119.82	-7,180.75	2,181.57	7,576.24	7,530.90	45.34	167.113	
2,300.00	2,279.82	2,304.18	2,295.82	8.45	39.25	119.73	-7,180.75	2,181.57	7,593.10	7,545.50	47.60	159.519	
2,400.00	2,373.17	2,389.17	2,389.17	8.99	40.73	119.62	-7,180.75	2,181.57	7,611.77	7,562.18	49.58	153.522	
2,500.00	2,465.21	2,481.21	2,481.21	9.58	42.34	119.50	-7,180.75	2,181.57	7,632.26	7,580.54	51.72	147.574	
2,574.08	2,532.50	2,548.50	2,548.50	10.04	43.51	119.39	-7,180.75	2,181.57	7,648.63	7,595.32	53.31	143.480	
2,600.00	2,555.89	2,571.89	2,571.89	10.21	43.92	119.46	-7,180.75	2,181.57	7,654.54	7,600.67	53.87	142.104	
2,700.00	2,646.16	2,662.16	2,662.16	10.88	45.49	119.72	-7,180.75	2,181.57	7,677.44	7,621.42	56.03	137.028	
2,800.00	2,736.44	2,752.44	2,752.44	11.57	47.07	119.98	-7,180.75	2,181.57	7,700.52	7,642.32	58.21	132.296	
2,900.00	2,826.71	2,842.71	2,842.71	12.27	48.65	120.23	-7,180.75	2,181.57	7,723.77	7,663.37	60.40	127.882	
3,000.00	2,916.98	2,932.98	2,932.98	13.00	50.22	120.49	-7,180.75	2,181.57	7,747.19	7,684.59	62.60	123.758	
3,100.00	3,007.25	3,023.25	3,023.25	13.73	51.80	120.74	-7,180.75	2,181.57	7,770.78	7,705.97	64.81	119.902	
3,200.00	3,097.52	3,113.52	3,113.52	14.48	53.37	120.99	-7,180.75	2,181.57	7,794.53	7,727.50	67.03	116.291	
3,300.00	3,187.80	3,203.80	3,203.80	15.23	54.95	121.25	-7,180.75	2,181.57	7,818.45	7,749.20	69.25	112.905	
3,400.00	3,278.07	3,305.93	3,294.07	15.99	56.73	121.50	-7,180.75	2,181.57	7,842.53	7,770.84	71.68	109.408	
3,500.00	3,368.34	3,384.34	3,384.34	16.76	58.10	121.74	-7,180.75	2,181.57	7,866.77	7,793.06	73.70	106.735	
3,600.00	3,458.61	3,474.61	3,474.61	17.54	59.67	121.99	-7,180.75	2,181.57	7,891.17	7,815.23	75.94	103.918	
3,700.00	3,548.89	3,564.89	3,564.89	18.32	61.25	122.24	-7,180.75	2,181.57	7,915.73	7,837.56	78.17	101.262	
3,800.00	3,639.16	3,655.16	3,655.16	19.10	62.83	122.48	-7,180.75	2,181.57	7,940.45	7,860.04	80.41	98.754	
3,900.00	3,729.43	3,745.43	3,745.43	19.89	64.40	122.73	-7,180.75	2,181.57	7,965.32	7,882.68	82.64	96.383	
4,000.00	3,819.70	3,835.70	3,835.70	20.69	65.98	122.97	-7,180.75	2,181.57	7,990.35	7,905.47	84.88	94.137	
4,100.00	3,909.98	3,925.98	3,925.98	21.48	67.55	123.21	-7,180.75	2,181.57	8,015.53	7,928.41	87.12	92.009	
4,200.00	4,000.25	4,016.25	4,016.25	22.28	69.13	123.45	-7,180.75	2,181.57	8,040.86	7,951.50	89.35	89.989	
4,300.00	4,090.52	4,106.52	4,106.52	23.08	70.70	123.69	-7,180.75	2,181.57	8,066.34	7,974.75	91.59	88.070	
4,400.00	4,180.79	4,203.21	4,196.79	23.88	72.39	123.92	-7,180.75	2,181.57	8,091.97	7,998.03	93.94	86.141	
4,500.00	4,271.06	4,287.06	4,287.06	24.69	73.85	124.16	-7,180.75	2,181.57	8,117.75	8,021.68	96.06	84.506	
4,600.00	4,361.34	4,377.34	4,377.34	25.49	75.43	124.39	-7,180.75	2,181.57	8,143.67	8,045.37	98.30	82.849	
4,700.00	4,451.61	4,467.61	4,467.61	26.30	77.01	124.63	-7,180.75	2,181.57	8,169.74	8,069.21	100.53	81.268	
4,800.00	4,541.88	4,557.88	4,557.88	27.11	78.58	124.86	-7,180.75	2,181.57	8,195.94	8,093.18	102.76	79.758	
4,900.00	4,632.15	4,648.15	4,648.15	27.92	80.16	125.09	-7,180.75	2,181.57	8,222.30	8,117.31	104.99	78.315	
5,000.00	4,722.43	4,738.43	4,738.43	28.74	81.73	125.32	-7,180.75	2,181.57	8,248.79	8,141.57	107.22	76.934	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,828.70	4,828.70	29.55	83.31	125.54	-7,180.75	2,181.57	8,275.42	8,165.97	109.45	75.611	
5,200.00	4,902.97	4,918.97	4,918.97	30.37	84.88	125.77	-7,180.75	2,181.57	8,302.19	8,190.51	111.67	74.344	
5,300.00	4,993.24	5,009.24	5,009.24	31.18	86.46	126.00	-7,180.75	2,181.57	8,329.09	8,215.19	113.90	73.129	
5,400.00	5,083.51	5,100.49	5,099.51	32.00	88.05	126.22	-7,180.75	2,181.57	8,356.13	8,239.99	116.14	71.951	
5,500.00	5,173.79	5,189.79	5,189.79	32.82	89.61	126.44	-7,180.75	2,181.57	8,383.30	8,264.96	118.34	70.841	
5,600.00	5,264.06	5,280.06	5,280.06	33.63	91.19	126.66	-7,180.75	2,181.57	8,410.61	8,290.05	120.56	69.764	
5,700.00	5,354.33	5,370.33	5,370.33	34.45	92.76	126.88	-7,180.75	2,181.57	8,438.04	8,315.27	122.77	68.728	
5,800.00	5,444.60	5,460.60	5,460.60	35.27	94.34	127.10	-7,180.75	2,181.57	8,465.61	8,340.62	124.99	67.731	
5,900.00	5,534.88	5,550.88	5,550.88	36.09	95.91	127.32	-7,180.75	2,181.57	8,493.30	8,366.10	127.20	66.770	
6,000.00	5,625.15	5,641.15	5,641.15	36.91	97.49	127.54	-7,180.75	2,181.57	8,521.12	8,391.71	129.41	65.845	
6,100.00	5,715.42	5,731.42	5,731.42	37.74	99.06	127.75	-7,180.75	2,181.57	8,549.07	8,417.45	131.62	64.952	
6,200.00	5,805.69	5,821.69	5,821.69	38.56	100.64	127.96	-7,180.75	2,181.57	8,577.14	8,443.31	133.83	64.091	
6,300.00	5,895.96	5,911.96	5,911.96	39.38	102.21	128.18	-7,180.75	2,181.57	8,605.34	8,469.30	136.03	63.259	
6,400.00	5,986.24	6,002.24	6,002.24	40.20	103.79	128.39	-7,180.75	2,181.57	8,633.66	8,495.42	138.24	62.456	
6,500.00	6,076.51	6,107.49	6,092.51	41.03	105.63	128.60	-7,180.75	2,181.57	8,662.09	8,521.40	140.70	61.565	
6,600.00	6,166.78	6,182.78	6,182.78	41.85	106.94	128.81	-7,180.75	2,181.57	8,690.65	8,548.02	142.64	60.929	
6,700.00	6,257.05	6,273.05	6,273.05	42.67	108.52	129.01	-7,180.75	2,181.57	8,719.33	8,574.50	144.83	60.203	
6,800.00	6,347.33	6,363.33	6,363.33	43.50	110.09	129.22	-7,180.75	2,181.57	8,748.13	8,601.10	147.03	59.500	
6,900.00	6,437.60	6,453.60	6,453.60	44.32	111.67	129.43	-7,180.75	2,181.57	8,777.04	8,627.82	149.22	58.820	
7,000.00	6,527.87	6,543.87	6,543.87	45.15	113.24	129.63	-7,180.75	2,181.57	8,806.06	8,654.65	151.41	58.160	
7,100.00	6,618.14	6,634.14	6,634.14	45.98	114.82	129.83	-7,180.75	2,181.57	8,835.21	8,681.61	153.60	57.521	
7,200.00	6,708.41	6,724.41	6,724.41	46.80	116.39	130.03	-7,180.75	2,181.57	8,864.46	8,708.67	155.79	56.902	
7,300.00	6,798.69	6,814.69	6,814.69	47.63	117.97	130.24	-7,180.75	2,181.57	8,893.82	8,735.86	157.97	56.301	
7,400.00	6,888.96	6,904.96	6,904.96	48.45	119.55	130.43	-7,180.75	2,181.57	8,923.30	8,763.15	160.15	55.718	
7,500.00	6,979.23	7,004.77	6,995.23	49.28	121.29	130.63	-7,180.75	2,181.57	8,952.89	8,790.39	162.50	55.095	
7,600.00	7,069.50	7,085.50	7,085.50	50.11	122.70	130.83	-7,180.75	2,181.57	8,982.58	8,818.07	164.51	54.602	
7,692.09	7,152.63	7,168.63	7,168.63	50.87	124.15	131.01	-7,180.75	2,181.57	9,010.02	8,843.51	166.52	54.109	
7,700.00	7,159.79	7,175.79	7,175.79	50.93	124.27	129.82	-7,180.75	2,181.57	9,012.33	8,845.65	166.69	54.067	
7,750.00	7,205.70	7,221.70	7,221.70	51.32	125.07	120.93	-7,180.75	2,181.57	9,024.51	8,856.72	167.79	53.786	
7,800.00	7,252.52	7,268.52	7,268.52	51.66	125.89	109.33	-7,180.75	2,181.57	9,032.45	8,863.56	168.89	53.480	
7,850.00	7,299.89	7,315.89	7,315.89	51.96	126.72	95.19	-7,180.75	2,181.57	9,036.09	8,866.09	170.00	53.153	
7,900.00	7,347.44	7,363.44	7,363.44	52.20	127.55	79.93	-7,180.75	2,181.57	9,035.41	8,864.31	171.10	52.809	
7,950.00	7,394.83	7,410.83	7,410.83	52.39	128.37	65.65	-7,180.75	2,181.57	9,030.40	8,858.23	172.17	52.451	
8,000.00	7,441.68	7,457.68	7,457.68	52.53	129.19	53.82	-7,180.75	2,181.57	9,021.10	8,847.90	173.21	52.083	
8,050.00	7,487.65	7,503.65	7,503.65	52.62	129.99	44.65	-7,180.75	2,181.57	9,007.59	8,833.38	174.21	51.706	
8,100.00	7,532.37	7,548.37	7,548.37	52.67	130.78	37.72	-7,180.75	2,181.57	8,989.96	8,814.79	175.17	51.322	
8,150.00	7,575.52	7,608.48	7,591.52	52.67	131.82	32.47	-7,180.75	2,181.57	8,968.35	8,791.97	176.37	50.848	
8,200.00	7,616.76	7,632.76	7,632.76	52.63	132.25	28.43	-7,180.75	2,181.57	8,942.91	8,765.97	176.93	50.544	
8,250.00	7,655.77	7,671.77	7,671.77	52.55	132.93	25.26	-7,180.75	2,181.57	8,913.84	8,736.10	177.73	50.153	
8,300.00	7,692.27	7,708.27	7,708.27	52.44	133.57	22.72	-7,180.75	2,181.57	8,881.35	8,702.88	178.47	49.765	
8,350.00	7,725.97	7,741.97	7,741.97	52.29	134.15	20.63	-7,180.75	2,181.57	8,845.69	8,666.55	179.13	49.380	
8,400.00	7,756.62	7,772.62	7,772.62	52.12	134.69	18.86	-7,180.75	2,181.57	8,807.12	8,627.39	179.73	49.001	
8,450.00	7,783.98	7,800.02	7,799.98	51.92	135.17	17.28	-7,180.75	2,181.57	8,765.94	8,585.68	180.26	48.630	
8,500.00	7,807.85	7,823.85	7,823.85	51.70	135.58	15.79	-7,180.75	2,181.57	8,722.46	8,541.75	180.71	48.268	
8,550.00	7,828.05	7,844.05	7,844.05	51.45	135.94	14.23	-7,180.75	2,181.57	8,677.00	8,495.92	181.08	47.917	
8,600.00	7,844.41	7,860.41	7,860.41	51.20	136.22	12.33	-7,180.75	2,181.57	8,629.91	8,448.54	181.38	47.580	
8,650.00	7,856.82	7,872.82	7,872.82	50.93	136.44	9.43	-7,180.75	2,181.57	8,581.55	8,399.96	181.60	47.256	
8,700.00	7,865.18	7,881.18	7,881.18	50.65	136.58	3.17	-7,180.75	2,181.57	8,532.28	8,350.55	181.74	46.949	
8,750.00	7,869.43	7,885.43	7,885.43	50.36	136.66	-24.78	-7,180.75	2,181.57	8,482.48	8,300.68	181.80	46.659	
8,776.25	7,870.00	7,886.00	7,886.00	50.21	136.67	-90.00	-7,180.75	2,181.57	8,456.25	8,274.45	181.80	46.514	
8,800.00	7,870.00	7,886.00	7,886.00	50.08	136.67	-90.00	-7,180.75	2,181.57	8,432.51	8,250.72	181.79	46.386	
8,900.00	7,870.00	7,886.00	7,886.00	49.53	136.67	-90.00	-7,180.75	2,181.57	8,332.57	8,150.82	181.76	45.845	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,886.00	7,886.00	49.01	136.67	-90.00	-7,180.75	2,181.57	8,232.63	8,050.91	181.72	45.303	
9,100.00	7,870.00	7,886.00	7,886.00	48.52	136.67	-90.00	-7,180.75	2,181.57	8,132.70	7,951.01	181.69	44.762	
9,200.00	7,870.00	7,886.00	7,886.00	48.06	136.67	-90.00	-7,180.75	2,181.57	8,032.76	7,851.11	181.65	44.220	
9,300.00	7,870.00	7,886.00	7,886.00	47.63	136.67	-90.00	-7,180.75	2,181.57	7,932.83	7,751.21	181.62	43.678	
9,400.00	7,870.00	7,886.00	7,886.00	47.22	136.67	-90.00	-7,180.75	2,181.57	7,832.90	7,651.31	181.59	43.136	
9,500.00	7,870.00	7,886.00	7,886.00	46.83	136.67	-90.00	-7,180.75	2,181.57	7,732.96	7,551.41	181.55	42.594	
9,600.00	7,870.00	7,886.00	7,886.00	46.48	136.67	-90.00	-7,180.75	2,181.57	7,633.04	7,451.52	181.52	42.052	
9,700.00	7,870.00	7,886.00	7,886.00	46.14	136.67	-90.00	-7,180.75	2,181.57	7,533.11	7,351.63	181.48	41.509	
9,800.00	7,870.00	7,886.00	7,886.00	45.83	136.67	-90.00	-7,180.75	2,181.57	7,433.18	7,251.74	181.45	40.966	
9,900.00	7,870.00	7,886.00	7,886.00	45.54	136.67	-90.00	-7,180.75	2,181.57	7,333.26	7,151.85	181.41	40.424	
10,000.00	7,870.00	7,886.00	7,886.00	45.27	136.67	-90.00	-7,180.75	2,181.57	7,233.34	7,051.97	181.37	39.881	
10,100.00	7,870.00	7,886.00	7,886.00	45.03	136.67	-90.00	-7,180.75	2,181.57	7,133.42	6,952.08	181.34	39.337	
10,200.00	7,870.00	7,886.00	7,886.00	44.82	136.67	-90.00	-7,180.75	2,181.57	7,033.51	6,852.20	181.30	38.794	
10,300.00	7,870.00	7,886.00	7,886.00	44.66	136.67	-90.00	-7,180.75	2,181.57	6,933.59	6,752.33	181.27	38.251	
10,400.00	7,870.00	7,886.00	7,886.00	44.56	136.67	-90.00	-7,180.75	2,181.57	6,833.68	6,652.45	181.23	37.707	
10,500.00	7,870.00	7,886.00	7,886.00	44.58	136.67	-90.00	-7,180.75	2,181.57	6,733.77	6,552.58	181.19	37.164	
10,600.00	7,870.00	7,886.00	7,886.00	44.82	136.67	-90.00	-7,180.75	2,181.57	6,633.87	6,452.71	181.15	36.620	
10,700.00	7,870.00	7,886.00	7,886.00	45.36	136.67	-90.00	-7,180.75	2,181.57	6,533.96	6,352.85	181.12	36.076	
10,800.00	7,870.00	7,886.00	7,886.00	46.15	136.67	-90.00	-7,180.75	2,181.57	6,434.06	6,252.99	181.08	35.532	
10,900.00	7,870.00	7,886.00	7,886.00	47.09	136.67	-90.00	-7,180.75	2,181.57	6,334.17	6,153.13	181.04	34.988	
11,000.00	7,870.00	7,886.00	7,886.00	48.13	136.67	-90.00	-7,180.75	2,181.57	6,234.27	6,053.28	181.00	34.444	
11,100.00	7,870.00	7,886.00	7,886.00	49.22	136.67	-90.00	-7,180.75	2,181.57	6,134.38	5,953.43	180.96	33.900	
11,200.00	7,870.00	7,886.00	7,886.00	50.37	136.67	-90.00	-7,180.75	2,181.57	6,034.50	5,853.58	180.92	33.355	
11,300.00	7,870.00	7,886.00	7,886.00	51.55	136.67	-90.00	-7,180.75	2,181.57	5,934.62	5,753.74	180.87	32.811	
11,400.00	7,870.00	7,886.00	7,886.00	52.76	136.67	-90.00	-7,180.75	2,181.57	5,834.74	5,653.91	180.83	32.266	
11,500.00	7,870.00	7,886.00	7,886.00	54.00	136.67	-90.00	-7,180.75	2,181.57	5,734.86	5,554.08	180.79	31.722	
11,600.00	7,870.00	7,886.00	7,886.00	55.27	136.67	-90.00	-7,180.75	2,181.57	5,634.99	5,454.25	180.74	31.177	
11,700.00	7,870.00	7,886.00	7,886.00	56.56	136.67	-90.00	-7,180.75	2,181.57	5,535.13	5,354.43	180.70	30.632	
11,800.00	7,870.00	7,886.00	7,886.00	57.88	136.67	-90.00	-7,180.75	2,181.57	5,435.27	5,254.62	180.65	30.088	
11,900.00	7,870.00	7,886.00	7,886.00	59.21	136.67	-90.00	-7,180.75	2,181.57	5,335.41	5,154.81	180.60	29.543	
12,000.00	7,870.00	7,886.00	7,886.00	60.57	136.67	-90.00	-7,180.75	2,181.57	5,235.56	5,055.01	180.55	28.998	
12,100.00	7,870.00	7,886.00	7,886.00	61.94	136.67	-90.00	-7,180.75	2,181.57	5,135.72	4,955.22	180.50	28.453	
12,200.00	7,870.00	7,886.00	7,886.00	63.33	136.67	-90.00	-7,180.75	2,181.57	5,035.88	4,855.44	180.45	27.908	
12,300.00	7,870.00	7,886.00	7,886.00	64.74	136.67	-90.00	-7,180.75	2,181.57	4,936.05	4,755.66	180.39	27.363	
12,400.00	7,870.00	7,886.00	7,886.00	66.16	136.67	-90.00	-7,180.75	2,181.57	4,836.23	4,655.89	180.34	26.818	
12,500.00	7,870.00	7,886.00	7,886.00	67.59	136.67	-90.00	-7,180.75	2,181.57	4,736.41	4,556.13	180.28	26.272	
12,600.00	7,870.00	7,886.00	7,886.00	69.04	136.67	-90.00	-7,180.75	2,181.57	4,636.61	4,456.38	180.22	25.727	
12,700.00	7,870.00	7,886.00	7,886.00	70.51	136.67	-90.00	-7,180.75	2,181.57	4,536.81	4,356.65	180.16	25.182	
12,800.00	7,870.00	7,886.00	7,886.00	71.98	136.67	-90.00	-7,180.75	2,181.57	4,437.02	4,256.92	180.10	24.637	
12,900.00	7,870.00	7,886.00	7,886.00	73.47	136.67	-90.00	-7,180.75	2,181.57	4,337.23	4,157.20	180.03	24.091	
13,000.00	7,870.00	7,886.00	7,886.00	74.96	136.67	-90.00	-7,180.75	2,181.57	4,237.46	4,057.50	179.96	23.546	
13,100.00	7,870.00	7,886.00	7,886.00	76.47	136.67	-90.00	-7,180.75	2,181.57	4,137.70	3,957.81	179.89	23.001	
13,200.00	7,870.00	7,886.00	7,886.00	77.99	136.67	-90.00	-7,180.75	2,181.57	4,037.96	3,858.13	179.82	22.455	
13,300.00	7,870.00	7,886.00	7,886.00	79.51	136.67	-90.00	-7,180.75	2,181.57	3,938.22	3,758.47	179.75	21.910	
13,400.00	7,870.00	7,886.00	7,886.00	81.05	136.67	-90.00	-7,180.75	2,181.57	3,838.50	3,658.83	179.67	21.364	
13,500.00	7,870.00	7,886.00	7,886.00	82.59	136.67	-90.00	-7,180.75	2,181.57	3,738.79	3,559.21	179.59	20.819	
13,600.00	7,870.00	7,886.00	7,886.00	84.14	136.67	-90.00	-7,180.75	2,181.57	3,639.10	3,459.60	179.50	20.273	
13,700.00	7,870.00	7,886.00	7,886.00	85.70	136.67	-90.00	-7,180.75	2,181.57	3,539.43	3,360.02	179.41	19.728	
13,800.00	7,870.00	7,886.00	7,886.00	87.26	136.67	-90.00	-7,180.75	2,181.57	3,439.78	3,260.45	179.32	19.182	
13,900.00	7,870.00	7,886.00	7,886.00	88.83	136.67	-90.00	-7,180.75	2,181.57	3,340.14	3,160.92	179.23	18.636	
14,000.00	7,870.00	7,886.00	7,886.00	90.41	136.67	-90.00	-7,180.75	2,181.57	3,240.53	3,061.41	179.13	18.091	
14,100.00	7,870.00	7,886.00	7,886.00	92.00	136.67	-90.00	-7,180.75	2,181.57	3,140.95	2,961.92	179.02	17.545	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	7,886.00	7,886.00	93.59	136.67	-90.00	-7,180.75	2,181.57	3,041.39	2,862.47	178.92	16.999	
14,300.00	7,870.00	7,886.00	7,886.00	95.18	136.67	-90.00	-7,180.75	2,181.57	2,941.86	2,763.05	178.81	16.453	
14,400.00	7,870.00	7,886.00	7,886.00	96.79	136.67	-90.00	-7,180.75	2,181.57	2,842.36	2,663.68	178.69	15.907	
14,500.00	7,870.00	7,886.00	7,886.00	98.39	136.67	-90.00	-7,180.75	2,181.57	2,742.91	2,564.34	178.57	15.360	
14,600.00	7,870.00	7,886.00	7,886.00	100.00	136.67	-90.00	-7,180.75	2,181.57	2,643.49	2,465.04	178.45	14.814	
14,700.00	7,870.00	7,886.00	7,886.00	101.62	136.67	-90.00	-7,180.75	2,181.57	2,544.12	2,365.80	178.32	14.267	
14,800.00	7,870.00	7,886.00	7,886.00	103.24	136.67	-90.00	-7,180.75	2,181.57	2,444.79	2,266.61	178.19	13.720	
14,900.00	7,870.00	7,886.00	7,886.00	104.87	136.67	-90.00	-7,180.75	2,181.57	2,345.53	2,167.48	178.06	13.173	
15,000.00	7,870.00	7,886.00	7,886.00	106.50	136.67	-90.00	-7,180.75	2,181.57	2,246.33	2,068.41	177.92	12.625	
15,100.00	7,870.00	7,886.00	7,886.00	108.13	136.67	-90.00	-7,180.75	2,181.57	2,147.21	1,969.42	177.79	12.077	
15,200.00	7,870.00	7,886.00	7,886.00	109.77	136.67	-90.00	-7,180.75	2,181.57	2,048.17	1,870.51	177.66	11.529	
15,300.00	7,870.00	7,886.00	7,886.00	111.41	136.67	-90.00	-7,180.75	2,181.57	1,949.23	1,771.69	177.54	10.979	
15,400.00	7,870.00	7,886.00	7,886.00	113.05	136.67	-90.00	-7,180.75	2,181.57	1,850.40	1,672.97	177.43	10.429	
15,500.00	7,870.00	7,886.00	7,886.00	114.70	136.67	-90.00	-7,180.75	2,181.57	1,751.71	1,574.37	177.34	9.878	
15,600.00	7,870.00	7,886.00	7,886.00	116.35	136.67	-90.00	-7,180.75	2,181.57	1,653.17	1,475.89	177.28	9.325	
15,700.00	7,870.00	7,886.00	7,886.00	118.00	136.67	-90.00	-7,180.75	2,181.57	1,554.83	1,377.56	177.27	8.771	
15,800.00	7,870.00	7,886.00	7,886.00	119.66	136.67	-90.00	-7,180.75	2,181.57	1,456.70	1,279.38	177.32	8.215	
15,900.00	7,870.00	7,886.00	7,886.00	121.32	136.67	-90.00	-7,180.75	2,181.57	1,358.85	1,181.38	177.47	7.657	
16,000.00	7,870.00	7,886.00	7,886.00	122.98	136.67	-90.00	-7,180.75	2,181.57	1,261.34	1,083.58	177.76	7.096	
16,100.00	7,870.00	7,886.00	7,886.00	124.65	136.67	-90.00	-7,180.75	2,181.57	1,164.24	985.99	178.26	6.531	
16,200.00	7,870.00	7,886.00	7,886.00	126.32	136.67	-90.00	-7,180.75	2,181.57	1,067.69	888.63	179.06	5.963	
16,300.00	7,870.00	7,886.00	7,886.00	127.99	136.67	-90.00	-7,180.75	2,181.57	971.83	791.53	180.30	5.390	
16,400.00	7,870.00	7,886.00	7,886.00	129.66	136.67	-90.00	-7,180.75	2,181.57	876.90	694.70	182.20	4.813	
16,500.00	7,870.00	7,886.00	7,886.00	131.33	136.67	-90.00	-7,180.75	2,181.57	783.23	598.18	185.05	4.232	
16,600.00	7,870.00	7,886.00	7,886.00	133.01	136.67	-90.00	-7,180.75	2,181.57	691.34	502.02	189.32	3.652	
16,700.00	7,870.00	7,886.00	7,886.00	134.69	136.67	-90.00	-7,180.75	2,181.57	602.03	406.40	195.63	3.077	
16,800.00	7,870.00	7,886.00	7,886.00	136.37	136.67	-90.00	-7,180.75	2,181.57	516.66	311.78	204.87	2.522	
16,900.00	7,870.00	7,886.00	7,886.00	138.06	136.67	-90.00	-7,180.75	2,181.57	437.53	219.39	218.14	2.006	
17,000.00	7,870.00	7,886.00	7,886.00	139.74	136.67	-90.00	-7,180.75	2,181.57	368.68	132.47	236.21	1.561	
17,100.00	7,870.00	7,886.00	7,886.00	141.43	136.67	-90.00	-7,180.75	2,181.57	316.90	59.22	257.67	1.230	Level 2
17,200.00	7,870.00	7,886.00	7,886.00	143.12	136.67	-90.00	-7,180.75	2,181.57	291.41	15.70	275.71	1.057	Level 2
17,227.52	7,870.00	7,886.00	7,886.00	143.58	136.67	-90.00	-7,180.75	2,181.57	290.11	11.44	278.67	1.041	Level 2, CC, ES, SF
17,300.00	7,870.00	7,886.00	7,886.00	144.81	136.67	-90.00	-7,180.75	2,181.57	299.02	18.10	280.92	1.064	Level 2
17,400.00	7,870.00	7,886.00	7,886.00	146.50	136.67	-90.00	-7,180.75	2,181.57	337.51	64.16	273.34	1.235	Level 2
17,500.00	7,870.00	7,886.00	7,886.00	148.19	136.67	-90.00	-7,180.75	2,181.57	398.00	137.14	260.86	1.526	
17,600.00	7,870.00	7,886.00	7,886.00	149.89	136.67	-90.00	-7,180.75	2,181.57	472.13	223.23	248.90	1.897	
17,700.00	7,870.00	7,886.00	7,886.00	151.59	136.67	-90.00	-7,180.75	2,181.57	554.44	315.41	239.02	2.320	
17,800.00	7,870.00	7,886.00	7,886.00	153.29	136.67	-90.00	-7,180.75	2,181.57	641.79	410.57	231.22	2.776	
17,900.00	7,870.00	7,886.00	7,886.00	154.99	136.67	-90.00	-7,180.75	2,181.57	732.39	507.30	225.09	3.254	
18,000.00	7,870.00	7,886.00	7,886.00	156.69	136.67	-90.00	-7,180.75	2,181.57	825.16	604.92	220.24	3.747	
18,100.00	7,870.00	7,886.00	7,886.00	158.39	136.67	-90.00	-7,180.75	2,181.57	919.45	703.11	216.34	4.250	
18,200.00	7,870.00	7,886.00	7,886.00	160.09	136.67	-90.00	-7,180.75	2,181.57	1,014.83	801.66	213.17	4.761	
18,300.00	7,870.00	7,886.00	7,886.00	161.80	136.67	-90.00	-7,180.75	2,181.57	1,111.02	900.47	210.55	5.277	
18,400.00	7,870.00	7,886.00	7,886.00	163.51	136.67	-90.00	-7,180.75	2,181.57	1,207.84	999.46	208.37	5.796	
18,455.45	7,870.00	7,886.00	7,886.00	164.45	136.67	-90.00	-7,180.75	2,181.57	1,261.73	1,054.42	207.32	6.086	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	140.03	-6,863.98	5,754.24	8,956.93				
100.00	100.00	67.00	67.00	0.13	0.53	140.03	-6,863.98	5,754.24	8,956.87	8,956.21	0.66	N/A	
200.00	200.00	167.00	167.00	0.49	1.95	140.03	-6,863.98	5,754.24	8,956.87	8,954.42	2.45	3,659.348	
300.00	300.00	267.00	267.00	0.85	3.70	140.03	-6,863.98	5,754.24	8,956.87	8,952.32	4.55	1,967.907	
400.00	400.00	367.00	367.00	1.21	5.45	140.03	-6,863.98	5,754.24	8,956.87	8,950.21	6.66	1,345.831	
500.00	500.00	467.00	467.00	1.57	7.19	140.03	-6,863.98	5,754.24	8,956.87	8,948.11	8.76	1,022.582	
600.00	600.00	567.00	567.00	1.93	8.94	140.03	-6,863.98	5,754.24	8,956.87	8,946.01	10.86	824.540	
700.00	700.00	667.00	667.00	2.29	10.68	140.03	-6,863.98	5,754.24	8,956.87	8,943.90	12.97	690.761	
800.00	800.00	767.00	767.00	2.64	12.43	140.03	-6,863.98	5,754.24	8,956.87	8,941.80	15.07	594.332	
900.00	900.00	867.00	867.00	3.00	14.17	140.03	-6,863.98	5,754.24	8,956.87	8,939.69	17.17	521.528	
1,000.00	1,000.00	967.00	967.00	3.36	15.92	140.03	-6,863.98	5,754.24	8,956.87	8,937.59	19.28	464.614	
1,100.00	1,100.00	1,067.00	1,067.00	3.72	17.66	140.03	-6,863.98	5,754.24	8,956.87	8,935.49	21.38	418.900	
1,200.00	1,200.00	1,167.00	1,167.00	4.08	19.41	140.03	-6,863.98	5,754.24	8,956.87	8,933.38	23.49	381.376	
1,300.00	1,300.00	1,267.00	1,267.00	4.44	21.15	140.03	-6,863.98	5,754.24	8,956.87	8,931.28	25.59	350.022	
1,400.00	1,399.98	1,366.98	1,366.98	4.79	22.90	97.09	-6,863.98	5,754.24	8,957.08	8,929.39	27.69	323.472	
1,500.00	1,499.84	1,466.84	1,466.84	5.15	24.64	97.11	-6,863.98	5,754.24	8,957.73	8,927.94	29.79	300.717	
1,600.00	1,599.45	1,566.45	1,566.45	5.51	26.38	97.14	-6,863.98	5,754.24	8,958.82	8,926.93	31.88	280.978	
1,700.00	1,698.70	1,665.70	1,665.70	5.87	28.11	97.19	-6,863.98	5,754.24	8,960.35	8,926.37	33.98	263.687	
1,800.00	1,797.47	1,764.47	1,764.47	6.24	29.84	97.25	-6,863.98	5,754.24	8,962.34	8,926.26	36.08	248.405	
1,900.00	1,895.62	1,862.62	1,862.62	6.63	31.55	97.32	-6,863.98	5,754.24	8,964.80	8,926.62	38.18	234.788	
2,000.00	1,993.06	1,960.06	1,960.06	7.04	33.25	97.40	-6,863.98	5,754.24	8,967.76	8,927.47	40.29	222.565	
2,100.00	2,089.64	2,056.64	2,056.64	7.48	34.94	97.49	-6,863.98	5,754.24	8,971.23	8,928.82	42.41	211.518	
2,200.00	2,185.27	2,152.27	2,152.27	7.94	36.60	97.59	-6,863.98	5,754.24	8,975.24	8,930.69	44.55	201.475	
2,300.00	2,279.82	2,246.82	2,246.82	8.45	38.25	97.69	-6,863.98	5,754.24	8,979.81	8,933.11	46.70	192.296	
2,400.00	2,373.17	2,340.17	2,340.17	8.99	39.88	97.80	-6,863.98	5,754.24	8,984.98	8,936.11	48.87	183.866	
2,500.00	2,465.21	2,432.21	2,432.21	9.58	41.49	97.91	-6,863.98	5,754.24	8,990.77	8,939.71	51.06	176.092	
2,574.08	2,532.50	2,500.50	2,499.50	10.04	42.68	98.00	-6,863.98	5,754.24	8,995.48	8,942.77	52.71	170.655	
2,600.00	2,555.89	2,522.89	2,522.89	10.21	43.07	98.06	-6,863.98	5,754.24	8,997.20	8,943.94	53.27	168.901	
2,700.00	2,646.16	2,613.16	2,613.16	10.88	44.65	98.30	-6,863.98	5,754.24	9,003.97	8,948.47	55.51	162.217	
2,800.00	2,736.44	2,703.44	2,703.44	11.57	46.22	98.55	-6,863.98	5,754.24	9,010.94	8,953.18	57.76	155.999	
2,900.00	2,826.71	2,806.29	2,793.71	12.27	48.02	98.79	-6,863.98	5,754.24	9,018.11	8,957.85	60.26	149.662	
3,000.00	2,916.98	2,883.98	2,883.98	13.00	49.38	99.04	-6,863.98	5,754.24	9,025.47	8,963.15	62.32	144.814	
3,100.00	3,007.25	2,974.25	2,974.25	13.73	50.95	99.28	-6,863.98	5,754.24	9,033.04	8,968.42	64.62	139.779	
3,200.00	3,097.52	3,064.52	3,064.52	14.48	52.53	99.53	-6,863.98	5,754.24	9,040.80	8,973.87	66.93	135.074	
3,300.00	3,187.80	3,154.80	3,154.80	15.23	54.10	99.77	-6,863.98	5,754.24	9,048.77	8,979.52	69.25	130.670	
3,400.00	3,278.07	3,245.07	3,245.07	15.99	55.68	100.01	-6,863.98	5,754.24	9,056.93	8,985.35	71.57	126.542	
3,500.00	3,368.34	3,335.34	3,335.34	16.76	57.25	100.26	-6,863.98	5,754.24	9,065.28	8,991.38	73.90	122.668	
3,600.00	3,458.61	3,425.61	3,425.61	17.54	58.83	100.50	-6,863.98	5,754.24	9,073.83	8,997.60	76.23	119.025	
3,700.00	3,548.89	3,515.89	3,515.89	18.32	60.40	100.74	-6,863.98	5,754.24	9,082.58	9,004.01	78.57	115.596	
3,800.00	3,639.16	3,606.16	3,606.16	19.10	61.98	100.98	-6,863.98	5,754.24	9,091.53	9,010.61	80.91	112.363	
3,900.00	3,729.43	3,703.57	3,696.43	19.89	63.68	101.22	-6,863.98	5,754.24	9,100.66	9,017.28	83.38	109.147	
4,000.00	3,819.70	3,786.70	3,786.70	20.69	65.13	101.46	-6,863.98	5,754.24	9,110.00	9,024.40	85.60	106.424	
4,100.00	3,909.98	3,876.98	3,876.98	21.48	66.71	101.70	-6,863.98	5,754.24	9,119.52	9,031.57	87.95	103.693	
4,200.00	4,000.25	3,967.25	3,967.25	22.28	68.28	101.94	-6,863.98	5,754.24	9,129.24	9,038.94	90.30	101.104	
4,300.00	4,090.52	4,057.52	4,057.52	23.08	69.86	102.18	-6,863.98	5,754.24	9,139.15	9,046.50	92.65	98.647	
4,400.00	4,180.79	4,147.79	4,147.79	23.88	71.43	102.42	-6,863.98	5,754.24	9,149.25	9,054.26	95.00	96.312	
4,500.00	4,271.06	4,238.06	4,238.06	24.69	73.01	102.66	-6,863.98	5,754.24	9,159.55	9,062.20	97.35	94.093	
4,600.00	4,361.34	4,328.34	4,328.34	25.49	74.58	102.90	-6,863.98	5,754.24	9,170.03	9,070.33	99.70	91.979	
4,700.00	4,451.61	4,418.61	4,418.61	26.30	76.16	103.14	-6,863.98	5,754.24	9,180.70	9,078.65	102.05	89.964	
4,800.00	4,541.88	4,508.88	4,508.88	27.11	77.73	103.37	-6,863.98	5,754.24	9,191.56	9,087.16	104.40	88.042	
4,900.00	4,632.15	4,600.85	4,599.15	27.92	79.34	103.61	-6,863.98	5,754.24	9,202.61	9,095.83	106.78	86.183	
5,000.00	4,722.43	4,689.43	4,689.43	28.74	80.89	103.85	-6,863.98	5,754.24	9,213.85	9,104.75	109.10	84.453	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,779.70	4,779.70	29.55	82.46	104.08	-6,863.98	5,754.24	9,225.28	9,113.83	111.45	82.775	
5,200.00	4,902.97	4,869.97	4,869.97	30.37	84.04	104.32	-6,863.98	5,754.24	9,236.89	9,123.09	113.80	81.168	
5,300.00	4,993.24	4,960.24	4,960.24	31.18	85.61	104.55	-6,863.98	5,754.24	9,248.68	9,132.54	116.15	79.628	
5,400.00	5,083.51	5,042.00	5,042.00	32.00	87.04	104.76	-6,863.98	5,754.24	9,260.67	9,142.32	118.35	78.251	
5,500.00	5,173.79	5,042.00	5,042.00	32.82	87.04	104.76	-6,863.98	5,754.24	9,273.36	9,154.26	119.10	77.862	
5,600.00	5,264.06	5,042.00	5,042.00	33.63	87.04	104.76	-6,863.98	5,754.24	9,287.10	9,167.26	119.84	77.496	
5,700.00	5,354.33	5,042.00	5,042.00	34.45	87.04	104.76	-6,863.98	5,754.24	9,301.91	9,181.34	120.57	77.151	
5,800.00	5,444.60	5,042.00	5,042.00	35.27	87.04	104.76	-6,863.98	5,754.24	9,317.76	9,196.48	121.28	76.827	
5,900.00	5,534.88	5,042.00	5,042.00	36.09	87.04	104.76	-6,863.98	5,754.24	9,334.65	9,212.67	121.98	76.524	
6,000.00	5,625.15	5,042.00	5,042.00	36.91	87.04	104.76	-6,863.98	5,754.24	9,352.59	9,229.92	122.67	76.240	
6,100.00	5,715.42	5,042.00	5,042.00	37.74	87.04	104.76	-6,863.98	5,754.24	9,371.56	9,248.21	123.35	75.977	
6,200.00	5,805.69	5,042.00	5,042.00	38.56	87.04	104.76	-6,863.98	5,754.24	9,391.55	9,267.54	124.01	75.733	
6,300.00	5,895.96	5,042.00	5,042.00	39.38	87.04	104.76	-6,863.98	5,754.24	9,412.57	9,287.91	124.66	75.508	
6,400.00	5,986.24	5,042.00	5,042.00	40.20	87.04	104.76	-6,863.98	5,754.24	9,434.59	9,309.30	125.29	75.301	
6,500.00	6,076.51	5,042.00	5,042.00	41.03	87.04	104.76	-6,863.98	5,754.24	9,457.63	9,331.72	125.91	75.113	
6,600.00	6,166.78	5,042.00	5,042.00	41.85	87.04	104.76	-6,863.98	5,754.24	9,481.66	9,355.14	126.52	74.942	
6,700.00	6,257.05	5,042.00	5,042.00	42.67	87.04	104.76	-6,863.98	5,754.24	9,506.68	9,379.57	127.11	74.789	
6,800.00	6,347.33	5,042.00	5,042.00	43.50	87.04	104.76	-6,863.98	5,754.24	9,532.69	9,405.00	127.69	74.653	
6,900.00	6,437.60	5,042.00	5,042.00	44.32	87.04	104.76	-6,863.98	5,754.24	9,559.67	9,431.41	128.26	74.534	
7,000.00	6,527.87	5,042.00	5,042.00	45.15	87.04	104.76	-6,863.98	5,754.24	9,587.62	9,458.81	128.81	74.430	
7,100.00	6,618.14	5,042.00	5,042.00	45.98	87.04	104.76	-6,863.98	5,754.24	9,616.53	9,487.18	129.35	74.343	
7,200.00	6,708.41	5,042.00	5,042.00	46.80	87.04	104.76	-6,863.98	5,754.24	9,646.39	9,516.51	129.88	74.272	
7,300.00	6,798.69	5,042.00	5,042.00	47.63	87.04	104.76	-6,863.98	5,754.24	9,677.19	9,546.80	130.39	74.216	
7,400.00	6,888.96	5,042.00	5,042.00	48.45	87.04	104.76	-6,863.98	5,754.24	9,708.92	9,578.03	130.89	74.174	
7,500.00	6,979.23	5,042.00	5,042.00	49.28	87.04	104.76	-6,863.98	5,754.24	9,741.58	9,610.20	131.38	74.148	
7,600.00	7,069.50	5,042.00	5,042.00	50.11	87.04	104.76	-6,863.98	5,754.24	9,775.14	9,643.29	131.86	74.136	
7,692.09	7,152.63	5,042.00	5,042.00	50.87	87.04	104.76	-6,863.98	5,754.24	9,806.86	9,674.58	132.28	74.137	
7,700.00	7,159.79	5,042.00	5,042.00	50.93	87.04	103.69	-6,863.98	5,754.24	9,809.57	9,677.26	132.32	74.137	
7,750.00	7,205.70	5,042.00	5,042.00	51.32	87.04	95.40	-6,863.98	5,754.24	9,824.78	9,692.25	132.53	74.135	
7,800.00	7,252.52	5,042.00	5,042.00	51.66	87.04	84.24	-6,863.98	5,754.24	9,836.53	9,703.83	132.70	74.124	
7,850.00	7,299.89	5,042.00	5,042.00	51.96	87.04	70.38	-6,863.98	5,754.24	9,844.76	9,711.91	132.85	74.104	
7,900.00	7,347.44	5,042.00	5,042.00	52.20	87.04	55.24	-6,863.98	5,754.24	9,849.41	9,716.45	132.96	74.079	
7,950.00	7,394.83	5,042.00	5,042.00	52.39	87.04	40.95	-6,863.98	5,754.24	9,850.44	9,717.42	133.03	74.049	
8,000.00	7,441.68	5,042.00	5,042.00	52.53	87.04	28.95	-6,863.98	5,754.24	9,847.86	9,714.81	133.06	74.012	
8,050.00	7,487.65	5,042.00	5,042.00	52.62	87.04	19.47	-6,863.98	5,754.24	9,841.68	9,708.63	133.05	73.970	
8,100.00	7,532.37	5,042.00	5,042.00	52.67	87.04	12.07	-6,863.98	5,754.24	9,831.94	9,698.93	133.01	73.919	
8,150.00	7,575.52	5,042.00	5,042.00	52.67	87.04	6.18	-6,863.98	5,754.24	9,818.70	9,685.77	132.94	73.860	
8,200.00	7,616.76	5,042.00	5,042.00	52.63	87.04	1.33	-6,863.98	5,754.24	9,802.06	9,669.22	132.83	73.793	
8,250.00	7,655.77	5,042.00	5,042.00	52.55	87.04	-2.86	-6,863.98	5,754.24	9,782.11	9,649.41	132.70	73.715	
8,300.00	7,692.27	5,042.00	5,042.00	52.44	87.04	-6.64	-6,863.98	5,754.24	9,758.99	9,626.45	132.55	73.627	
8,350.00	7,725.97	5,042.00	5,042.00	52.29	87.04	-10.22	-6,863.98	5,754.24	9,732.87	9,600.50	132.37	73.529	
8,400.00	7,756.62	5,042.00	5,042.00	52.12	87.04	-13.78	-6,863.98	5,754.24	9,703.90	9,571.73	132.17	73.421	
8,450.00	7,783.98	5,042.00	5,042.00	51.92	87.04	-17.45	-6,863.98	5,754.24	9,672.29	9,540.34	131.95	73.301	
8,500.00	7,807.85	5,042.00	5,042.00	51.70	87.04	-21.39	-6,863.98	5,754.24	9,638.25	9,506.53	131.72	73.170	
8,550.00	7,828.05	5,042.00	5,042.00	51.45	87.04	-25.74	-6,863.98	5,754.24	9,602.02	9,470.54	131.48	73.028	
8,600.00	7,844.41	5,042.00	5,042.00	51.20	87.04	-30.64	-6,863.98	5,754.24	9,563.86	9,432.62	131.24	72.875	
8,650.00	7,856.82	5,042.00	5,042.00	50.93	87.04	-36.24	-6,863.98	5,754.24	9,524.02	9,393.03	130.98	72.711	
8,700.00	7,865.18	5,042.00	5,042.00	50.65	87.04	-42.66	-6,863.98	5,754.24	9,482.79	9,352.06	130.73	72.536	
8,750.00	7,869.43	5,042.00	5,042.00	50.36	87.04	-49.95	-6,863.98	5,754.24	9,440.48	9,310.00	130.48	72.351	
8,776.25	7,870.00	5,042.00	5,042.00	50.21	87.04	-54.10	-6,863.98	5,754.24	9,417.93	9,287.58	130.35	72.249	
8,800.00	7,870.00	5,042.00	5,042.00	50.08	87.04	-54.10	-6,863.98	5,754.24	9,397.46	9,267.22	130.24	72.157	
8,900.00	7,870.00	5,042.00	5,042.00	49.53	87.04	-54.10	-6,863.98	5,754.24	9,311.42	9,181.67	129.75	71.767	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,042.00	5,042.00	49.01	87.04	-54.10	-6,863.98	5,754.24	9,225.66	9,096.40	129.26	71.376	
9,100.00	7,870.00	5,042.00	5,042.00	48.52	87.04	-54.10	-6,863.98	5,754.24	9,140.19	9,011.42	128.77	70.982	
9,200.00	7,870.00	5,042.00	5,042.00	48.06	87.04	-54.10	-6,863.98	5,754.24	9,055.02	8,926.73	128.28	70.586	
9,300.00	7,870.00	5,042.00	5,042.00	47.63	87.04	-54.10	-6,863.98	5,754.24	8,970.15	8,842.35	127.80	70.188	
9,400.00	7,870.00	5,042.00	5,042.00	47.22	87.04	-54.10	-6,863.98	5,754.24	8,885.60	8,758.27	127.33	69.786	
9,500.00	7,870.00	5,042.00	5,042.00	46.83	87.04	-54.10	-6,863.98	5,754.24	8,801.37	8,674.52	126.86	69.381	
9,600.00	7,870.00	5,042.00	5,042.00	46.48	87.04	-54.10	-6,863.98	5,754.24	8,717.48	8,591.08	126.39	68.971	
9,700.00	7,870.00	5,042.00	5,042.00	46.14	87.04	-54.10	-6,863.98	5,754.24	8,633.93	8,507.99	125.94	68.557	
9,800.00	7,870.00	5,042.00	5,042.00	45.83	87.04	-54.10	-6,863.98	5,754.24	8,550.73	8,425.24	125.49	68.137	
9,900.00	7,870.00	5,042.00	5,042.00	45.54	87.04	-54.10	-6,863.98	5,754.24	8,467.90	8,342.84	125.06	67.711	
10,000.00	7,870.00	5,042.00	5,042.00	45.27	87.04	-54.10	-6,863.98	5,754.24	8,385.44	8,260.80	124.64	67.278	
10,100.00	7,870.00	5,042.00	5,042.00	45.03	87.04	-54.10	-6,863.98	5,754.24	8,303.36	8,179.13	124.23	66.839	
10,200.00	7,870.00	5,042.00	5,042.00	44.82	87.04	-54.10	-6,863.98	5,754.24	8,221.68	8,097.85	123.84	66.391	
10,300.00	7,870.00	5,042.00	5,042.00	44.66	87.04	-54.10	-6,863.98	5,754.24	8,140.42	8,016.95	123.46	65.934	
10,400.00	7,870.00	5,042.00	5,042.00	44.56	87.04	-54.10	-6,863.98	5,754.24	8,059.57	7,936.46	123.11	65.468	
10,500.00	7,870.00	5,042.00	5,042.00	44.58	87.04	-54.10	-6,863.98	5,754.24	7,979.16	7,856.38	122.77	64.991	
10,600.00	7,870.00	5,042.00	5,042.00	44.82	87.04	-54.10	-6,863.98	5,754.24	7,899.19	7,776.73	122.46	64.502	
10,700.00	7,870.00	5,042.00	5,042.00	45.36	87.04	-54.10	-6,863.98	5,754.24	7,819.68	7,697.51	122.18	64.002	
10,800.00	7,870.00	5,042.00	5,042.00	46.15	87.04	-54.10	-6,863.98	5,754.24	7,740.66	7,618.73	121.92	63.488	
10,900.00	7,870.00	5,042.00	5,042.00	47.09	87.04	-54.10	-6,863.98	5,754.24	7,662.12	7,540.42	121.70	62.961	
11,000.00	7,870.00	5,042.00	5,042.00	48.13	87.04	-54.10	-6,863.98	5,754.24	7,584.08	7,462.58	121.50	62.419	
11,100.00	7,870.00	5,042.00	5,042.00	49.22	87.04	-54.10	-6,863.98	5,754.24	7,506.57	7,385.22	121.35	61.861	
11,200.00	7,870.00	5,042.00	5,042.00	50.37	87.04	-54.10	-6,863.98	5,754.24	7,429.59	7,308.37	121.22	61.288	
11,300.00	7,870.00	5,042.00	5,042.00	51.55	87.04	-54.10	-6,863.98	5,754.24	7,353.17	7,232.03	121.14	60.697	
11,400.00	7,870.00	5,042.00	5,042.00	52.76	87.04	-54.10	-6,863.98	5,754.24	7,277.32	7,156.21	121.11	60.090	
11,500.00	7,870.00	5,042.00	5,042.00	54.00	87.04	-54.10	-6,863.98	5,754.24	7,202.06	7,080.95	121.11	59.465	
11,600.00	7,870.00	5,042.00	5,042.00	55.27	87.04	-54.10	-6,863.98	5,754.24	7,127.41	7,006.24	121.17	58.822	
11,700.00	7,870.00	5,042.00	5,042.00	56.56	87.04	-54.10	-6,863.98	5,754.24	7,053.38	6,932.11	121.27	58.161	
11,800.00	7,870.00	5,042.00	5,042.00	57.88	87.04	-54.10	-6,863.98	5,754.24	6,980.01	6,858.58	121.43	57.482	
11,900.00	7,870.00	5,042.00	5,042.00	59.21	87.04	-54.10	-6,863.98	5,754.24	6,907.30	6,785.66	121.64	56.785	
12,000.00	7,870.00	5,042.00	5,042.00	60.57	87.04	-54.10	-6,863.98	5,754.24	6,835.28	6,713.38	121.90	56.071	
12,100.00	7,870.00	5,042.00	5,042.00	61.94	87.04	-54.10	-6,863.98	5,754.24	6,763.97	6,641.75	122.23	55.340	
12,200.00	7,870.00	5,042.00	5,042.00	63.33	87.04	-54.10	-6,863.98	5,754.24	6,693.40	6,570.80	122.61	54.593	
12,300.00	7,870.00	5,042.00	5,042.00	64.74	87.04	-54.10	-6,863.98	5,754.24	6,623.59	6,500.54	123.05	53.830	
12,400.00	7,870.00	5,042.00	5,042.00	66.16	87.04	-54.10	-6,863.98	5,754.24	6,554.55	6,431.01	123.55	53.053	
12,500.00	7,870.00	5,042.00	5,042.00	67.59	87.04	-54.10	-6,863.98	5,754.24	6,486.33	6,362.22	124.11	52.263	
12,600.00	7,870.00	5,042.00	5,042.00	69.04	87.04	-54.10	-6,863.98	5,754.24	6,418.94	6,294.20	124.73	51.461	
12,700.00	7,870.00	5,042.00	5,042.00	70.51	87.04	-54.10	-6,863.98	5,754.24	6,352.40	6,226.98	125.42	50.649	
12,800.00	7,870.00	5,042.00	5,042.00	71.98	87.04	-54.10	-6,863.98	5,754.24	6,286.75	6,160.58	126.17	49.827	
12,900.00	7,870.00	5,042.00	5,042.00	73.47	87.04	-54.10	-6,863.98	5,754.24	6,222.02	6,095.04	126.98	48.999	
13,000.00	7,870.00	5,042.00	5,042.00	74.96	87.04	-54.10	-6,863.98	5,754.24	6,158.23	6,030.38	127.86	48.165	
13,100.00	7,870.00	5,042.00	5,042.00	76.47	87.04	-54.10	-6,863.98	5,754.24	6,095.42	5,966.62	128.79	47.327	
13,200.00	7,870.00	5,042.00	5,042.00	77.99	87.04	-54.10	-6,863.98	5,754.24	6,033.61	5,903.81	129.79	46.486	
13,300.00	7,870.00	5,042.00	5,042.00	79.51	87.04	-54.10	-6,863.98	5,754.24	5,972.83	5,841.98	130.85	45.646	
13,400.00	7,870.00	5,042.00	5,042.00	81.05	87.04	-54.10	-6,863.98	5,754.24	5,913.12	5,781.15	131.97	44.806	
13,500.00	7,870.00	5,042.00	5,042.00	82.59	87.04	-54.10	-6,863.98	5,754.24	5,854.50	5,721.35	133.15	43.969	
13,600.00	7,870.00	5,042.00	5,042.00	84.14	87.04	-54.10	-6,863.98	5,754.24	5,797.02	5,662.64	134.39	43.137	
13,700.00	7,870.00	5,042.00	5,042.00	85.70	87.04	-54.10	-6,863.98	5,754.24	5,740.71	5,605.03	135.68	42.311	
13,800.00	7,870.00	5,042.00	5,042.00	87.26	87.04	-54.10	-6,863.98	5,754.24	5,685.60	5,548.57	137.03	41.492	
13,900.00	7,870.00	5,042.00	5,042.00	88.83	87.04	-54.10	-6,863.98	5,754.24	5,631.73	5,493.29	138.43	40.683	
14,000.00	7,870.00	5,042.00	5,042.00	90.41	87.04	-54.10	-6,863.98	5,754.24	5,579.12	5,439.24	139.89	39.883	
14,100.00	7,870.00	5,042.00	5,042.00	92.00	87.04	-54.10	-6,863.98	5,754.24	5,527.83	5,386.44	141.39	39.096	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,042.00	5,042.00	93.59	87.04	-54.10	-6,863.98	5,754.24	5,477.88	5,334.93	142.95	38.321	
14,300.00	7,870.00	5,042.00	5,042.00	95.18	87.04	-54.10	-6,863.98	5,754.24	5,429.31	5,284.76	144.55	37.560	
14,400.00	7,870.00	5,042.00	5,042.00	96.79	87.04	-54.10	-6,863.98	5,754.24	5,382.17	5,235.96	146.20	36.813	
14,500.00	7,870.00	5,042.00	5,042.00	98.39	87.04	-54.10	-6,863.98	5,754.24	5,336.48	5,188.58	147.90	36.083	
14,600.00	7,870.00	5,042.00	5,042.00	100.00	87.04	-54.10	-6,863.98	5,754.24	5,292.28	5,142.65	149.63	35.369	
14,700.00	7,870.00	5,042.00	5,042.00	101.62	87.04	-54.10	-6,863.98	5,754.24	5,249.62	5,098.22	151.41	34.672	
14,800.00	7,870.00	5,042.00	5,042.00	103.24	87.04	-54.10	-6,863.98	5,754.24	5,208.53	5,055.31	153.22	33.994	
14,900.00	7,870.00	5,042.00	5,042.00	104.87	87.04	-54.10	-6,863.98	5,754.24	5,169.05	5,013.98	155.07	33.334	
15,000.00	7,870.00	5,042.00	5,042.00	106.50	87.04	-54.10	-6,863.98	5,754.24	5,131.22	4,974.27	156.95	32.693	
15,100.00	7,870.00	5,042.00	5,042.00	108.13	87.04	-54.10	-6,863.98	5,754.24	5,095.06	4,936.20	158.86	32.073	
15,200.00	7,870.00	5,042.00	5,042.00	109.77	87.04	-54.10	-6,863.98	5,754.24	5,060.63	4,899.83	160.80	31.472	
15,300.00	7,870.00	5,042.00	5,042.00	111.41	87.04	-54.10	-6,863.98	5,754.24	5,027.94	4,865.18	162.76	30.891	
15,400.00	7,870.00	5,042.00	5,042.00	113.05	87.04	-54.10	-6,863.98	5,754.24	4,997.05	4,832.30	164.75	30.331	
15,500.00	7,870.00	5,042.00	5,042.00	114.70	87.04	-54.10	-6,863.98	5,754.24	4,967.97	4,801.22	166.76	29.792	
15,600.00	7,870.00	5,042.00	5,042.00	116.35	87.04	-54.10	-6,863.98	5,754.24	4,940.75	4,771.98	168.78	29.274	
15,700.00	7,870.00	5,042.00	5,042.00	118.00	87.04	-54.10	-6,863.98	5,754.24	4,915.42	4,744.60	170.81	28.777	
15,800.00	7,870.00	5,042.00	5,042.00	119.66	87.04	-54.10	-6,863.98	5,754.24	4,891.99	4,719.14	172.86	28.301	
15,900.00	7,870.00	5,042.00	5,042.00	121.32	87.04	-54.10	-6,863.98	5,754.24	4,870.51	4,695.60	174.91	27.846	
16,000.00	7,870.00	5,042.00	5,042.00	122.98	87.04	-54.10	-6,863.98	5,754.24	4,850.99	4,674.03	176.96	27.412	
16,100.00	7,870.00	5,042.00	5,042.00	124.65	87.04	-54.10	-6,863.98	5,754.24	4,833.47	4,654.45	179.02	27.000	
16,200.00	7,870.00	5,042.00	5,042.00	126.32	87.04	-54.10	-6,863.98	5,754.24	4,817.96	4,636.89	181.07	26.608	
16,300.00	7,870.00	5,042.00	5,042.00	127.99	87.04	-54.10	-6,863.98	5,754.24	4,804.47	4,621.36	183.12	26.237	
16,400.00	7,870.00	5,042.00	5,042.00	129.66	87.04	-54.10	-6,863.98	5,754.24	4,793.04	4,607.89	185.15	25.887	
16,500.00	7,870.00	5,042.00	5,042.00	131.33	87.04	-54.10	-6,863.98	5,754.24	4,783.67	4,596.50	187.17	25.558	
16,600.00	7,870.00	5,042.00	5,042.00	133.01	87.04	-54.10	-6,863.98	5,754.24	4,776.38	4,587.20	189.18	25.248	
16,700.00	7,870.00	5,042.00	5,042.00	134.69	87.04	-54.10	-6,863.98	5,754.24	4,771.17	4,580.01	191.16	24.959	
16,800.00	7,870.00	5,042.00	5,042.00	136.37	87.04	-54.10	-6,863.98	5,754.24	4,768.06	4,574.93	193.13	24.689	
16,898.62	7,870.00	5,042.00	5,042.00	138.03	87.04	-54.10	-6,863.98	5,754.24	4,767.04	4,572.00	195.04	24.442	CC
16,900.00	7,870.00	5,042.00	5,042.00	138.06	87.04	-54.10	-6,863.98	5,754.24	4,767.04	4,571.97	195.06	24.439	
17,000.00	7,870.00	5,042.00	5,042.00	139.74	87.04	-54.10	-6,863.98	5,754.24	4,768.11	4,571.14	196.97	24.207	ES
17,100.00	7,870.00	5,042.00	5,042.00	141.43	87.04	-54.10	-6,863.98	5,754.24	4,771.29	4,572.44	198.84	23.995	
17,200.00	7,870.00	5,042.00	5,042.00	143.12	87.04	-54.10	-6,863.98	5,754.24	4,776.55	4,575.87	200.68	23.801	
17,300.00	7,870.00	5,042.00	5,042.00	144.81	87.04	-54.10	-6,863.98	5,754.24	4,783.90	4,581.42	202.49	23.626	
17,400.00	7,870.00	5,042.00	5,042.00	146.50	87.04	-54.10	-6,863.98	5,754.24	4,793.33	4,589.08	204.25	23.468	
17,500.00	7,870.00	5,042.00	5,042.00	148.19	87.04	-54.10	-6,863.98	5,754.24	4,804.82	4,598.85	205.97	23.328	
17,600.00	7,870.00	5,042.00	5,042.00	149.89	87.04	-54.10	-6,863.98	5,754.24	4,818.36	4,610.71	207.65	23.205	
17,700.00	7,870.00	5,042.00	5,042.00	151.59	87.04	-54.10	-6,863.98	5,754.24	4,833.93	4,624.65	209.28	23.098	
17,800.00	7,870.00	5,042.00	5,042.00	153.29	87.04	-54.10	-6,863.98	5,754.24	4,851.51	4,640.65	210.86	23.008	
17,900.00	7,870.00	5,042.00	5,042.00	154.99	87.04	-54.10	-6,863.98	5,754.24	4,871.08	4,658.69	212.39	22.934	
18,000.00	7,870.00	5,042.00	5,042.00	156.69	87.04	-54.10	-6,863.98	5,754.24	4,892.61	4,678.74	213.88	22.876	
18,100.00	7,870.00	5,042.00	5,042.00	158.39	87.04	-54.10	-6,863.98	5,754.24	4,916.09	4,700.78	215.31	22.833	
18,200.00	7,870.00	5,042.00	5,042.00	160.09	87.04	-54.10	-6,863.98	5,754.24	4,941.48	4,724.79	216.69	22.805	
18,300.00	7,870.00	5,042.00	5,042.00	161.80	87.04	-54.10	-6,863.98	5,754.24	4,968.75	4,750.74	218.02	22.791	SF
18,400.00	7,870.00	5,042.00	5,042.00	163.51	87.04	-54.10	-6,863.98	5,754.24	4,997.88	4,778.59	219.29	22.791	
18,455.45	7,870.00	5,042.00	5,042.00	164.45	87.04	-54.10	-6,863.98	5,754.24	5,014.81	4,794.84	219.97	22.797	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.00	7,870.00	5,020.00	5,020.00	46.83	86.69	-53.92	-8,182.70	5,751.75	9,942.04	9,814.36	127.68	77.866	
9,600.00	7,870.00	5,020.00	5,020.00	46.48	86.69	-53.92	-8,182.70	5,751.75	9,854.48	9,727.21	127.27	77.430	
9,700.00	7,870.00	5,020.00	5,020.00	46.14	86.69	-53.92	-8,182.70	5,751.75	9,767.15	9,640.29	126.86	76.990	
9,800.00	7,870.00	5,020.00	5,020.00	45.83	86.69	-53.92	-8,182.70	5,751.75	9,680.07	9,553.61	126.46	76.546	
9,900.00	7,870.00	5,020.00	5,020.00	45.54	86.69	-53.92	-8,182.70	5,751.75	9,593.24	9,467.18	126.07	76.096	
10,000.00	7,870.00	5,020.00	5,020.00	45.27	86.69	-53.92	-8,182.70	5,751.75	9,506.68	9,380.99	125.68	75.641	
10,100.00	7,870.00	5,020.00	5,020.00	45.03	86.69	-53.92	-8,182.70	5,751.75	9,420.37	9,295.07	125.30	75.180	
10,200.00	7,870.00	5,020.00	5,020.00	44.82	86.69	-53.92	-8,182.70	5,751.75	9,334.34	9,209.40	124.94	74.712	
10,300.00	7,870.00	5,020.00	5,020.00	44.66	86.69	-53.92	-8,182.70	5,751.75	9,248.59	9,124.01	124.58	74.237	
10,400.00	7,870.00	5,020.00	5,020.00	44.56	86.69	-53.92	-8,182.70	5,751.75	9,163.13	9,038.89	124.24	73.754	
10,500.00	7,870.00	5,020.00	5,020.00	44.58	86.69	-53.92	-8,182.70	5,751.75	9,077.97	8,954.06	123.91	73.263	
10,600.00	7,870.00	5,020.00	5,020.00	44.82	86.69	-53.92	-8,182.70	5,751.75	8,993.11	8,869.52	123.60	72.762	
10,700.00	7,870.00	5,020.00	5,020.00	45.36	86.69	-53.92	-8,182.70	5,751.75	8,908.57	8,785.27	123.30	72.252	
10,800.00	7,870.00	5,020.00	5,020.00	46.15	86.69	-53.92	-8,182.70	5,751.75	8,824.35	8,701.33	123.02	71.732	
10,900.00	7,870.00	5,020.00	5,020.00	47.09	86.69	-53.92	-8,182.70	5,751.75	8,740.46	8,617.70	122.76	71.200	
11,000.00	7,870.00	5,020.00	5,020.00	48.13	86.69	-53.92	-8,182.70	5,751.75	8,656.92	8,534.39	122.52	70.656	
11,100.00	7,870.00	5,020.00	5,020.00	49.22	86.69	-53.92	-8,182.70	5,751.75	8,573.72	8,451.42	122.31	70.100	
11,200.00	7,870.00	5,020.00	5,020.00	50.37	86.69	-53.92	-8,182.70	5,751.75	8,490.89	8,368.77	122.12	69.530	
11,300.00	7,870.00	5,020.00	5,020.00	51.55	86.69	-53.92	-8,182.70	5,751.75	8,408.44	8,286.48	121.95	68.947	
11,400.00	7,870.00	5,020.00	5,020.00	52.76	86.69	-53.92	-8,182.70	5,751.75	8,326.36	8,204.54	121.82	68.349	
11,500.00	7,870.00	5,020.00	5,020.00	54.00	86.69	-53.92	-8,182.70	5,751.75	8,244.69	8,122.97	121.72	67.736	
11,600.00	7,870.00	5,020.00	5,020.00	55.27	86.69	-53.92	-8,182.70	5,751.75	8,163.42	8,041.77	121.65	67.107	
11,700.00	7,870.00	5,020.00	5,020.00	56.56	86.69	-53.92	-8,182.70	5,751.75	8,082.57	7,960.96	121.61	66.462	
11,800.00	7,870.00	5,020.00	5,020.00	57.88	86.69	-53.92	-8,182.70	5,751.75	8,002.15	7,880.54	121.61	65.800	
11,900.00	7,870.00	5,020.00	5,020.00	59.21	86.69	-53.92	-8,182.70	5,751.75	7,922.18	7,800.53	121.65	65.122	
12,000.00	7,870.00	5,020.00	5,020.00	60.57	86.69	-53.92	-8,182.70	5,751.75	7,842.67	7,720.94	121.73	64.426	
12,100.00	7,870.00	5,020.00	5,020.00	61.94	86.69	-53.92	-8,182.70	5,751.75	7,763.64	7,641.78	121.85	63.713	
12,200.00	7,870.00	5,020.00	5,020.00	63.33	86.69	-53.92	-8,182.70	5,751.75	7,685.09	7,563.07	122.02	62.983	
12,300.00	7,870.00	5,020.00	5,020.00	64.74	86.69	-53.92	-8,182.70	5,751.75	7,607.04	7,484.81	122.23	62.236	
12,400.00	7,870.00	5,020.00	5,020.00	66.16	86.69	-53.92	-8,182.70	5,751.75	7,529.52	7,407.03	122.49	61.472	
12,500.00	7,870.00	5,020.00	5,020.00	67.59	86.69	-53.92	-8,182.70	5,751.75	7,452.53	7,329.73	122.79	60.691	
12,600.00	7,870.00	5,020.00	5,020.00	69.04	86.69	-53.92	-8,182.70	5,751.75	7,376.09	7,252.94	123.15	59.895	
12,700.00	7,870.00	5,020.00	5,020.00	70.51	86.69	-53.92	-8,182.70	5,751.75	7,300.22	7,176.66	123.56	59.084	
12,800.00	7,870.00	5,020.00	5,020.00	71.98	86.69	-53.92	-8,182.70	5,751.75	7,224.94	7,100.92	124.02	58.258	
12,900.00	7,870.00	5,020.00	5,020.00	73.47	86.69	-53.92	-8,182.70	5,751.75	7,150.26	7,025.74	124.53	57.418	
13,000.00	7,870.00	5,020.00	5,020.00	74.96	86.69	-53.92	-8,182.70	5,751.75	7,076.21	6,951.12	125.09	56.567	
13,100.00	7,870.00	5,020.00	5,020.00	76.47	86.69	-53.92	-8,182.70	5,751.75	7,002.81	6,877.09	125.72	55.704	
13,200.00	7,870.00	5,020.00	5,020.00	77.99	86.69	-53.92	-8,182.70	5,751.75	6,930.07	6,803.68	126.39	54.831	
13,300.00	7,870.00	5,020.00	5,020.00	79.51	86.69	-53.92	-8,182.70	5,751.75	6,858.02	6,730.90	127.12	53.949	
13,400.00	7,870.00	5,020.00	5,020.00	81.05	86.69	-53.92	-8,182.70	5,751.75	6,786.67	6,658.77	127.91	53.059	
13,500.00	7,870.00	5,020.00	5,020.00	82.59	86.69	-53.92	-8,182.70	5,751.75	6,716.06	6,587.31	128.75	52.164	
13,600.00	7,870.00	5,020.00	5,020.00	84.14	86.69	-53.92	-8,182.70	5,751.75	6,646.20	6,516.56	129.65	51.264	
13,700.00	7,870.00	5,020.00	5,020.00	85.70	86.69	-53.92	-8,182.70	5,751.75	6,577.12	6,446.52	130.60	50.361	
13,800.00	7,870.00	5,020.00	5,020.00	87.26	86.69	-53.92	-8,182.70	5,751.75	6,508.85	6,377.24	131.61	49.456	
13,900.00	7,870.00	5,020.00	5,020.00	88.83	86.69	-53.92	-8,182.70	5,751.75	6,441.40	6,308.73	132.67	48.551	
14,000.00	7,870.00	5,020.00	5,020.00	90.41	86.69	-53.92	-8,182.70	5,751.75	6,374.80	6,241.01	133.79	47.648	
14,100.00	7,870.00	5,020.00	5,020.00	92.00	86.69	-53.92	-8,182.70	5,751.75	6,309.09	6,174.13	134.96	46.747	
14,200.00	7,870.00	5,020.00	5,020.00	93.59	86.69	-53.92	-8,182.70	5,751.75	6,244.29	6,108.10	136.19	45.850	
14,300.00	7,870.00	5,020.00	5,020.00	95.18	86.69	-53.92	-8,182.70	5,751.75	6,180.43	6,042.96	137.47	44.959	
14,400.00	7,870.00	5,020.00	5,020.00	96.79	86.69	-53.92	-8,182.70	5,751.75	6,117.54	5,978.74	138.80	44.074	
14,500.00	7,870.00	5,020.00	5,020.00	98.39	86.69	-53.92	-8,182.70	5,751.75	6,055.64	5,915.46	140.18	43.198	
14,600.00	7,870.00	5,020.00	5,020.00	100.00	86.69	-53.92	-8,182.70	5,751.75	5,994.77	5,853.16	141.62	42.330	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,700.00	7,870.00	5,020.00	5,020.00	101.62	86.69	-53.92	-8,182.70	5,751.75	5,934.97	5,791.87	143.10	41.473	
14,800.00	7,870.00	5,020.00	5,020.00	103.24	86.69	-53.92	-8,182.70	5,751.75	5,876.26	5,731.62	144.64	40.628	
14,900.00	7,870.00	5,020.00	5,020.00	104.87	86.69	-53.92	-8,182.70	5,751.75	5,818.67	5,672.45	146.22	39.794	
15,000.00	7,870.00	5,020.00	5,020.00	106.50	86.69	-53.92	-8,182.70	5,751.75	5,762.24	5,614.40	147.85	38.974	
15,100.00	7,870.00	5,020.00	5,020.00	108.13	86.69	-53.92	-8,182.70	5,751.75	5,707.01	5,557.49	149.52	38.169	
15,200.00	7,870.00	5,020.00	5,020.00	109.77	86.69	-53.92	-8,182.70	5,751.75	5,653.01	5,501.77	151.24	37.378	
15,300.00	7,870.00	5,020.00	5,020.00	111.41	86.69	-53.92	-8,182.70	5,751.75	5,600.27	5,447.27	153.00	36.603	
15,400.00	7,870.00	5,020.00	5,020.00	113.05	86.69	-53.92	-8,182.70	5,751.75	5,548.83	5,394.03	154.80	35.844	
15,500.00	7,870.00	5,020.00	5,020.00	114.70	86.69	-53.92	-8,182.70	5,751.75	5,498.74	5,342.09	156.65	35.102	
15,600.00	7,870.00	5,020.00	5,020.00	116.35	86.69	-53.92	-8,182.70	5,751.75	5,450.01	5,291.48	158.53	34.378	
15,700.00	7,870.00	5,020.00	5,020.00	118.00	86.69	-53.92	-8,182.70	5,751.75	5,402.70	5,242.25	160.45	33.672	
15,800.00	7,870.00	5,020.00	5,020.00	119.66	86.69	-53.92	-8,182.70	5,751.75	5,356.84	5,194.43	162.40	32.985	
15,900.00	7,870.00	5,020.00	5,020.00	121.32	86.69	-53.92	-8,182.70	5,751.75	5,312.46	5,148.07	164.39	32.316	
16,000.00	7,870.00	5,020.00	5,020.00	122.98	86.69	-53.92	-8,182.70	5,751.75	5,269.61	5,103.20	166.41	31.667	
16,100.00	7,870.00	5,020.00	5,020.00	124.65	86.69	-53.92	-8,182.70	5,751.75	5,228.32	5,059.86	168.46	31.037	
16,200.00	7,870.00	5,020.00	5,020.00	126.32	86.69	-53.92	-8,182.70	5,751.75	5,188.62	5,018.10	170.53	30.427	
16,300.00	7,870.00	5,020.00	5,020.00	127.99	86.69	-53.92	-8,182.70	5,751.75	5,150.57	4,977.94	172.63	29.837	
16,400.00	7,870.00	5,020.00	5,020.00	129.66	86.69	-53.92	-8,182.70	5,751.75	5,114.18	4,939.44	174.74	29.267	
16,500.00	7,870.00	5,020.00	5,020.00	131.33	86.69	-53.92	-8,182.70	5,751.75	5,079.51	4,902.63	176.88	28.717	
16,600.00	7,870.00	5,020.00	5,020.00	133.01	86.69	-53.92	-8,182.70	5,751.75	5,046.58	4,867.54	179.04	28.188	
16,700.00	7,870.00	5,020.00	5,020.00	134.69	86.69	-53.92	-8,182.70	5,751.75	5,015.42	4,834.22	181.20	27.679	
16,800.00	7,870.00	5,020.00	5,020.00	136.37	86.69	-53.92	-8,182.70	5,751.75	4,986.08	4,802.70	183.38	27.190	
16,900.00	7,870.00	5,020.00	5,020.00	138.06	86.69	-53.92	-8,182.70	5,751.75	4,958.58	4,773.02	185.56	26.722	
17,000.00	7,870.00	5,020.00	5,020.00	139.74	86.69	-53.92	-8,182.70	5,751.75	4,932.96	4,745.20	187.75	26.274	
17,100.00	7,870.00	5,020.00	5,020.00	141.43	86.69	-53.92	-8,182.70	5,751.75	4,909.24	4,719.29	189.94	25.846	
17,200.00	7,870.00	5,020.00	5,020.00	143.12	86.69	-53.92	-8,182.70	5,751.75	4,887.45	4,695.32	192.13	25.438	
17,300.00	7,870.00	5,020.00	5,020.00	144.81	86.69	-53.92	-8,182.70	5,751.75	4,867.61	4,673.30	194.31	25.051	
17,400.00	7,870.00	5,020.00	5,020.00	146.50	86.69	-53.92	-8,182.70	5,751.75	4,849.76	4,653.28	196.48	24.683	
17,500.00	7,870.00	5,020.00	5,020.00	148.19	86.69	-53.92	-8,182.70	5,751.75	4,833.91	4,635.27	198.64	24.335	
17,600.00	7,870.00	5,020.00	5,020.00	149.89	86.69	-53.92	-8,182.70	5,751.75	4,820.09	4,619.31	200.78	24.006	
17,700.00	7,870.00	5,020.00	5,020.00	151.59	86.69	-53.92	-8,182.70	5,751.75	4,808.30	4,605.40	202.91	23.697	
17,800.00	7,870.00	5,020.00	5,020.00	153.29	86.69	-53.92	-8,182.70	5,751.75	4,798.57	4,593.57	205.01	23.407	
17,900.00	7,870.00	5,020.00	5,020.00	154.99	86.69	-53.92	-8,182.70	5,751.75	4,790.91	4,583.83	207.08	23.136	
18,000.00	7,870.00	5,020.00	5,020.00	156.69	86.69	-53.92	-8,182.70	5,751.75	4,785.33	4,576.20	209.12	22.883	
18,100.00	7,870.00	5,020.00	5,020.00	158.39	86.69	-53.92	-8,182.70	5,751.75	4,781.83	4,570.69	211.14	22.648	
18,200.00	7,870.00	5,020.00	5,020.00	160.09	86.69	-53.92	-8,182.70	5,751.75	4,780.42	4,567.31	213.11	22.431	
18,217.34	7,870.00	5,020.00	5,020.00	160.39	86.69	-53.92	-8,182.70	5,751.75	4,780.39	4,566.94	213.45	22.396	CC
18,300.00	7,870.00	5,020.00	5,020.00	161.80	86.69	-53.92	-8,182.70	5,751.75	4,781.11	4,566.06	215.05	22.232	ES
18,400.00	7,870.00	5,020.00	5,020.00	163.51	86.69	-53.92	-8,182.70	5,751.75	4,783.88	4,566.93	216.95	22.051	
18,455.45	7,870.00	5,020.00	5,020.00	164.45	86.69	-53.92	-8,182.70	5,751.75	4,786.32	4,568.34	217.98	21.958	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	161.63	-5,566.26	1,848.71	5,865.31				
100.00	100.00	69.00	69.00	0.13	0.56	161.63	-5,566.26	1,848.71	5,865.23	5,864.54	0.69	8,446.273	
200.00	200.00	169.00	169.00	0.49	2.02	161.63	-5,566.26	1,848.71	5,865.23	5,862.72	2.51	2,337.906	
300.00	300.00	269.00	269.00	0.85	3.76	161.63	-5,566.26	1,848.71	5,865.23	5,860.62	4.61	1,271.580	
400.00	400.00	369.00	369.00	1.21	5.51	161.63	-5,566.26	1,848.71	5,865.23	5,858.52	6.72	873.276	
500.00	500.00	469.00	469.00	1.57	7.25	161.63	-5,566.26	1,848.71	5,865.23	5,856.41	8.82	664.980	
600.00	600.00	569.00	569.00	1.93	9.00	161.63	-5,566.26	1,848.71	5,865.23	5,854.31	10.92	536.915	
700.00	700.00	669.00	669.00	2.29	10.74	161.63	-5,566.26	1,848.71	5,865.23	5,852.20	13.03	450.210	
800.00	800.00	769.00	769.00	2.64	12.49	161.63	-5,566.26	1,848.71	5,865.23	5,850.10	15.13	387.616	
900.00	900.00	869.00	869.00	3.00	14.23	161.63	-5,566.26	1,848.71	5,865.23	5,848.00	17.24	340.302	
1,000.00	1,000.00	969.00	969.00	3.36	15.98	161.63	-5,566.26	1,848.71	5,865.23	5,845.89	19.34	303.283	
1,100.00	1,100.00	1,069.00	1,069.00	3.72	17.72	161.63	-5,566.26	1,848.71	5,865.23	5,843.79	21.44	273.527	
1,200.00	1,200.00	1,169.00	1,169.00	4.08	19.47	161.63	-5,566.26	1,848.71	5,865.23	5,841.69	23.55	249.089	
1,300.00	1,300.00	1,269.00	1,269.00	4.44	21.21	161.63	-5,566.26	1,848.71	5,865.23	5,839.58	25.65	228.659	
1,400.00	1,399.98	1,368.98	1,368.98	4.79	22.96	118.68	-5,566.26	1,848.71	5,866.07	5,838.32	27.75	211.376	
1,500.00	1,499.84	1,468.84	1,468.84	5.15	24.70	118.68	-5,566.26	1,848.71	5,868.58	5,838.73	29.85	196.602	
1,600.00	1,599.45	1,568.45	1,568.45	5.51	26.44	118.69	-5,566.26	1,848.71	5,872.78	5,840.83	31.95	183.828	
1,700.00	1,698.70	1,667.70	1,667.70	5.87	28.17	118.69	-5,566.26	1,848.71	5,878.66	5,844.62	34.04	172.682	
1,800.00	1,797.47	1,766.47	1,766.47	6.24	29.90	118.68	-5,566.26	1,848.71	5,886.25	5,850.11	36.14	162.876	
1,900.00	1,895.62	1,864.62	1,864.62	6.63	31.61	118.68	-5,566.26	1,848.71	5,895.54	5,857.30	38.24	154.184	
2,000.00	1,993.06	1,962.06	1,962.06	7.04	33.31	118.68	-5,566.26	1,848.71	5,906.55	5,866.21	40.34	146.427	
2,100.00	2,089.64	2,058.64	2,058.64	7.48	35.00	118.66	-5,566.26	1,848.71	5,919.30	5,876.86	42.44	139.464	
2,200.00	2,185.27	2,154.27	2,154.27	7.94	36.67	118.65	-5,566.26	1,848.71	5,933.81	5,889.25	44.56	133.178	
2,300.00	2,279.82	2,248.82	2,248.82	8.45	38.32	118.62	-5,566.26	1,848.71	5,950.09	5,903.41	46.68	127.477	
2,400.00	2,373.17	2,342.17	2,342.17	8.99	39.94	118.58	-5,566.26	1,848.71	5,968.16	5,919.36	48.81	122.285	
2,500.00	2,465.21	2,434.21	2,434.21	9.58	41.55	118.54	-5,566.26	1,848.71	5,988.05	5,937.11	50.95	117.540	
2,574.08	2,532.50	2,501.50	2,501.50	10.04	42.73	118.49	-5,566.26	1,848.71	6,003.97	5,951.43	52.54	114.281	
2,600.00	2,555.89	2,524.89	2,524.89	10.21	43.13	118.58	-5,566.26	1,848.71	6,009.72	5,956.63	53.10	113.187	
2,700.00	2,646.16	2,615.16	2,615.16	10.88	44.71	118.91	-5,566.26	1,848.71	6,032.07	5,976.80	55.26	109.157	
2,800.00	2,736.44	2,705.44	2,705.44	11.57	46.29	119.24	-5,566.26	1,848.71	6,054.63	5,997.19	57.44	105.406	
2,900.00	2,826.71	2,804.29	2,795.71	12.27	48.01	119.57	-5,566.26	1,848.71	6,077.41	6,017.63	59.78	101.657	
3,000.00	2,916.98	2,885.98	2,885.98	13.00	49.44	119.90	-5,566.26	1,848.71	6,100.42	6,038.58	61.84	98.654	
3,100.00	3,007.25	2,976.25	2,976.25	13.73	51.01	120.22	-5,566.26	1,848.71	6,123.64	6,059.59	64.05	95.613	
3,200.00	3,097.52	3,066.52	3,066.52	14.48	52.59	120.54	-5,566.26	1,848.71	6,147.07	6,080.81	66.26	92.768	
3,300.00	3,187.80	3,156.80	3,156.80	15.23	54.16	120.86	-5,566.26	1,848.71	6,170.71	6,102.23	68.48	90.105	
3,400.00	3,278.07	3,247.07	3,247.07	15.99	55.74	121.18	-5,566.26	1,848.71	6,194.56	6,123.86	70.71	87.608	
3,500.00	3,368.34	3,337.34	3,337.34	16.76	57.31	121.49	-5,566.26	1,848.71	6,218.62	6,145.69	72.94	85.262	
3,600.00	3,458.61	3,427.61	3,427.61	17.54	58.89	121.81	-5,566.26	1,848.71	6,242.88	6,167.72	75.16	83.056	
3,700.00	3,548.89	3,517.89	3,517.89	18.32	60.46	122.12	-5,566.26	1,848.71	6,267.35	6,189.95	77.39	80.979	
3,800.00	3,639.16	3,608.16	3,608.16	19.10	62.04	122.43	-5,566.26	1,848.71	6,292.01	6,212.38	79.63	79.020	
3,900.00	3,729.43	3,701.57	3,698.43	19.89	63.67	122.74	-5,566.26	1,848.71	6,316.87	6,234.96	81.91	77.119	
4,000.00	3,819.70	3,788.70	3,788.70	20.69	65.19	123.04	-5,566.26	1,848.71	6,341.92	6,257.83	84.09	75.421	
4,100.00	3,909.98	3,878.98	3,878.98	21.48	66.77	123.34	-5,566.26	1,848.71	6,367.17	6,280.85	86.32	73.765	
4,200.00	4,000.25	3,969.25	3,969.25	22.28	68.34	123.64	-5,566.26	1,848.71	6,392.60	6,304.05	88.55	72.195	
4,300.00	4,090.52	4,059.52	4,059.52	23.08	69.92	123.94	-5,566.26	1,848.71	6,418.22	6,327.45	90.77	70.705	
4,400.00	4,180.79	4,149.79	4,149.79	23.88	71.49	124.24	-5,566.26	1,848.71	6,444.03	6,351.03	93.00	69.289	
4,500.00	4,271.06	4,240.06	4,240.06	24.69	73.07	124.53	-5,566.26	1,848.71	6,470.02	6,374.80	95.23	67.943	
4,600.00	4,361.34	4,330.34	4,330.34	25.49	74.64	124.83	-5,566.26	1,848.71	6,496.20	6,398.75	97.45	66.661	
4,700.00	4,451.61	4,420.61	4,420.61	26.30	76.22	125.12	-5,566.26	1,848.71	6,522.55	6,422.87	99.67	65.440	
4,800.00	4,541.88	4,510.88	4,510.88	27.11	77.80	125.41	-5,566.26	1,848.71	6,549.07	6,447.18	101.89	64.274	
4,900.00	4,632.15	4,601.15	4,601.15	27.92	79.37	125.69	-5,566.26	1,848.71	6,575.78	6,471.67	104.11	63.162	
5,000.00	4,722.43	4,708.57	4,691.43	28.74	81.25	125.98	-5,566.26	1,848.71	6,602.65	6,496.03	106.63	61.924	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,781.70	4,781.70	29.55	82.52	126.26	-5,566.26	1,848.71	6,629.70	6,521.16	108.54	61.081	
5,200.00	4,902.97	4,871.97	4,871.97	30.37	84.10	126.54	-5,566.26	1,848.71	6,656.91	6,546.16	110.75	60.107	
5,300.00	4,993.24	4,962.24	4,962.24	31.18	85.67	126.82	-5,566.26	1,848.71	6,684.29	6,571.33	112.96	59.174	
5,400.00	5,083.51	5,052.51	5,052.51	32.00	87.25	127.09	-5,566.26	1,848.71	6,711.83	6,596.67	115.17	58.280	
5,500.00	5,173.79	5,125.00	5,125.00	32.82	88.51	127.31	-5,566.26	1,848.71	6,739.56	6,622.51	117.05	57.578	
5,600.00	5,264.06	5,125.00	5,125.00	33.63	88.51	127.31	-5,566.26	1,848.71	6,768.26	6,650.64	117.62	57.541	
5,700.00	5,354.33	5,125.00	5,125.00	34.45	88.51	127.31	-5,566.26	1,848.71	6,798.32	6,680.15	118.17	57.529	
5,800.00	5,444.60	5,125.00	5,125.00	35.27	88.51	127.31	-5,566.26	1,848.71	6,829.71	6,711.01	118.70	57.539	
5,900.00	5,534.88	5,125.00	5,125.00	36.09	88.51	127.31	-5,566.26	1,848.71	6,862.41	6,743.21	119.20	57.572	
6,000.00	5,625.15	5,125.00	5,125.00	36.91	88.51	127.31	-5,566.26	1,848.71	6,896.40	6,776.73	119.67	57.626	
6,100.00	5,715.42	5,125.00	5,125.00	37.74	88.51	127.31	-5,566.26	1,848.71	6,931.67	6,811.54	120.13	57.702	
6,200.00	5,805.69	5,125.00	5,125.00	38.56	88.51	127.31	-5,566.26	1,848.71	6,968.20	6,847.64	120.56	57.798	
6,300.00	5,895.96	5,125.00	5,125.00	39.38	88.51	127.31	-5,566.26	1,848.71	7,005.97	6,884.99	120.97	57.915	
6,400.00	5,986.24	5,125.00	5,125.00	40.20	88.51	127.31	-5,566.26	1,848.71	7,044.95	6,923.59	121.36	58.051	
6,500.00	6,076.51	5,125.00	5,125.00	41.03	88.51	127.31	-5,566.26	1,848.71	7,085.13	6,963.40	121.73	58.205	
6,600.00	6,166.78	5,125.00	5,125.00	41.85	88.51	127.31	-5,566.26	1,848.71	7,126.48	7,004.41	122.07	58.379	
6,700.00	6,257.05	5,125.00	5,125.00	42.67	88.51	127.31	-5,566.26	1,848.71	7,169.00	7,046.60	122.40	58.570	
6,800.00	6,347.33	5,125.00	5,125.00	43.50	88.51	127.31	-5,566.26	1,848.71	7,212.64	7,089.94	122.71	58.779	
6,900.00	6,437.60	5,125.00	5,125.00	44.32	88.51	127.31	-5,566.26	1,848.71	7,257.41	7,134.41	123.00	59.005	
7,000.00	6,527.87	5,125.00	5,125.00	45.15	88.51	127.31	-5,566.26	1,848.71	7,303.27	7,180.00	123.27	59.248	
7,100.00	6,618.14	5,125.00	5,125.00	45.98	88.51	127.31	-5,566.26	1,848.71	7,350.20	7,226.68	123.52	59.507	
7,200.00	6,708.41	5,125.00	5,125.00	46.80	88.51	127.31	-5,566.26	1,848.71	7,398.19	7,274.43	123.75	59.781	
7,300.00	6,798.69	5,125.00	5,125.00	47.63	88.51	127.31	-5,566.26	1,848.71	7,447.21	7,323.23	123.97	60.071	
7,400.00	6,888.96	5,125.00	5,125.00	48.45	88.51	127.31	-5,566.26	1,848.71	7,497.24	7,373.07	124.18	60.376	
7,500.00	6,979.23	5,125.00	5,125.00	49.28	88.51	127.31	-5,566.26	1,848.71	7,548.27	7,423.91	124.36	60.695	
7,600.00	7,069.50	5,125.00	5,125.00	50.11	88.51	127.31	-5,566.26	1,848.71	7,600.27	7,475.73	124.54	61.028	
7,692.09	7,152.63	5,125.00	5,125.00	50.87	88.51	127.31	-5,566.26	1,848.71	7,649.00	7,524.32	124.68	61.347	
7,700.00	7,159.79	5,125.00	5,125.00	50.93	88.51	126.16	-5,566.26	1,848.71	7,653.18	7,528.48	124.70	61.375	
7,750.00	7,205.70	5,125.00	5,125.00	51.32	88.51	117.43	-5,566.26	1,848.71	7,677.55	7,552.79	124.76	61.538	
7,800.00	7,252.52	5,125.00	5,125.00	51.66	88.51	105.94	-5,566.26	1,848.71	7,698.33	7,573.51	124.81	61.679	
7,850.00	7,299.89	5,125.00	5,125.00	51.96	88.51	91.90	-5,566.26	1,848.71	7,715.36	7,590.52	124.85	61.799	
7,900.00	7,347.44	5,125.00	5,125.00	52.20	88.51	76.68	-5,566.26	1,848.71	7,728.56	7,603.71	124.86	61.900	
7,950.00	7,394.83	5,125.00	5,125.00	52.39	88.51	62.44	-5,566.26	1,848.71	7,737.84	7,613.00	124.84	61.981	
8,000.00	7,441.68	5,125.00	5,125.00	52.53	88.51	50.61	-5,566.26	1,848.71	7,743.15	7,618.35	124.80	62.044	
8,050.00	7,487.65	5,125.00	5,125.00	52.62	88.51	41.44	-5,566.26	1,848.71	7,744.44	7,619.71	124.74	62.086	
8,100.00	7,532.37	5,125.00	5,125.00	52.67	88.51	34.48	-5,566.26	1,848.71	7,741.73	7,617.08	124.65	62.109	
8,150.00	7,575.52	5,125.00	5,125.00	52.67	88.51	29.18	-5,566.26	1,848.71	7,735.01	7,610.47	124.54	62.110	
8,200.00	7,616.76	5,125.00	5,125.00	52.63	88.51	25.08	-5,566.26	1,848.71	7,724.33	7,599.93	124.41	62.089	
8,250.00	7,655.77	5,125.00	5,125.00	52.55	88.51	21.83	-5,566.26	1,848.71	7,709.77	7,585.51	124.26	62.046	
8,300.00	7,692.27	5,125.00	5,125.00	52.44	88.51	19.20	-5,566.26	1,848.71	7,691.39	7,567.30	124.10	61.979	
8,350.00	7,725.97	5,125.00	5,125.00	52.29	88.51	17.01	-5,566.26	1,848.71	7,669.33	7,545.41	123.92	61.889	
8,400.00	7,756.62	5,125.00	5,125.00	52.12	88.51	15.13	-5,566.26	1,848.71	7,643.71	7,519.98	123.74	61.774	
8,450.00	7,783.98	5,125.00	5,125.00	51.92	88.51	13.47	-5,566.26	1,848.71	7,614.70	7,491.16	123.54	61.635	
8,500.00	7,807.85	5,125.00	5,125.00	51.70	88.51	11.94	-5,566.26	1,848.71	7,582.48	7,459.13	123.35	61.472	
8,550.00	7,828.05	5,125.00	5,125.00	51.45	88.51	10.47	-5,566.26	1,848.71	7,547.25	7,424.10	123.15	61.284	
8,600.00	7,844.41	5,125.00	5,125.00	51.20	88.51	8.95	-5,566.26	1,848.71	7,509.25	7,386.29	122.96	61.072	
8,650.00	7,856.82	5,125.00	5,125.00	50.93	88.51	7.29	-5,566.26	1,848.71	7,468.72	7,345.95	122.77	60.836	
8,700.00	7,865.18	5,125.00	5,125.00	50.65	88.51	5.32	-5,566.26	1,848.71	7,425.93	7,303.34	122.59	60.576	
8,750.00	7,869.43	5,125.00	5,125.00	50.36	88.51	2.76	-5,566.26	1,848.71	7,381.17	7,258.75	122.42	60.294	
8,776.25	7,870.00	5,125.00	5,125.00	50.21	88.51	1.02	-5,566.26	1,848.71	7,356.98	7,234.64	122.34	60.136	
8,800.00	7,870.00	5,125.00	5,125.00	50.08	88.51	1.02	-5,566.26	1,848.71	7,334.91	7,212.65	122.27	59.992	
8,900.00	7,870.00	5,125.00	5,125.00	49.53	88.51	1.02	-5,566.26	1,848.71	7,242.11	7,120.16	121.95	59.388	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,125.00	5,125.00	49.01	88.51	1.02	-5,566.26	1,848.71	7,149.50	7,027.88	121.62	58.786	
9,100.00	7,870.00	5,125.00	5,125.00	48.52	88.51	1.02	-5,566.26	1,848.71	7,057.08	6,935.80	121.28	58.186	
9,200.00	7,870.00	5,125.00	5,125.00	48.06	88.51	1.02	-5,566.26	1,848.71	6,964.88	6,843.94	120.94	57.588	
9,300.00	7,870.00	5,125.00	5,125.00	47.63	88.51	1.02	-5,566.26	1,848.71	6,872.90	6,752.31	120.59	56.992	
9,400.00	7,870.00	5,125.00	5,125.00	47.22	88.51	1.02	-5,566.26	1,848.71	6,781.15	6,660.91	120.24	56.399	
9,500.00	7,870.00	5,125.00	5,125.00	46.83	88.51	1.02	-5,566.26	1,848.71	6,689.63	6,569.76	119.87	55.808	
9,600.00	7,870.00	5,125.00	5,125.00	46.48	88.51	1.02	-5,566.26	1,848.71	6,598.35	6,478.86	119.49	55.219	
9,700.00	7,870.00	5,125.00	5,125.00	46.14	88.51	1.02	-5,566.26	1,848.71	6,507.34	6,388.23	119.11	54.633	
9,800.00	7,870.00	5,125.00	5,125.00	45.83	88.51	1.02	-5,566.26	1,848.71	6,416.59	6,297.87	118.72	54.049	
9,900.00	7,870.00	5,125.00	5,125.00	45.54	88.51	1.02	-5,566.26	1,848.71	6,326.12	6,207.80	118.31	53.469	
10,000.00	7,870.00	5,125.00	5,125.00	45.27	88.51	1.02	-5,566.26	1,848.71	6,235.94	6,118.04	117.90	52.891	
10,100.00	7,870.00	5,125.00	5,125.00	45.03	88.51	1.02	-5,566.26	1,848.71	6,146.07	6,028.58	117.48	52.315	
10,200.00	7,870.00	5,125.00	5,125.00	44.82	88.51	1.02	-5,566.26	1,848.71	6,056.51	5,939.46	117.05	51.743	
10,300.00	7,870.00	5,125.00	5,125.00	44.66	88.51	1.02	-5,566.26	1,848.71	5,967.28	5,850.68	116.61	51.174	
10,400.00	7,870.00	5,125.00	5,125.00	44.56	88.51	1.02	-5,566.26	1,848.71	5,878.40	5,762.25	116.15	50.609	
10,500.00	7,870.00	5,125.00	5,125.00	44.58	88.51	1.02	-5,566.26	1,848.71	5,789.89	5,674.20	115.69	50.046	
10,600.00	7,870.00	5,125.00	5,125.00	44.82	88.51	1.02	-5,566.26	1,848.71	5,701.75	5,586.53	115.22	49.487	
10,700.00	7,870.00	5,125.00	5,125.00	45.36	88.51	1.02	-5,566.26	1,848.71	5,614.01	5,499.28	114.73	48.932	
10,800.00	7,870.00	5,125.00	5,125.00	46.15	88.51	1.02	-5,566.26	1,848.71	5,526.69	5,412.46	114.23	48.381	
10,900.00	7,870.00	5,125.00	5,125.00	47.09	88.51	1.02	-5,566.26	1,848.71	5,439.80	5,326.08	113.73	47.833	
11,000.00	7,870.00	5,125.00	5,125.00	48.13	88.51	1.02	-5,566.26	1,848.71	5,353.38	5,240.17	113.21	47.289	
11,100.00	7,870.00	5,125.00	5,125.00	49.22	88.51	1.02	-5,566.26	1,848.71	5,267.43	5,154.75	112.67	46.749	
11,200.00	7,870.00	5,125.00	5,125.00	50.37	88.51	1.02	-5,566.26	1,848.71	5,181.98	5,069.85	112.13	46.213	
11,300.00	7,870.00	5,125.00	5,125.00	51.55	88.51	1.02	-5,566.26	1,848.71	5,097.07	4,985.49	111.58	45.682	
11,400.00	7,870.00	5,125.00	5,125.00	52.76	88.51	1.02	-5,566.26	1,848.71	5,012.71	4,901.70	111.01	45.155	
11,500.00	7,870.00	5,125.00	5,125.00	54.00	88.51	1.02	-5,566.26	1,848.71	4,928.94	4,818.51	110.43	44.633	
11,600.00	7,870.00	5,125.00	5,125.00	55.27	88.51	1.02	-5,566.26	1,848.71	4,845.78	4,735.94	109.84	44.115	
11,700.00	7,870.00	5,125.00	5,125.00	56.56	88.51	1.02	-5,566.26	1,848.71	4,763.28	4,654.03	109.24	43.602	
11,800.00	7,870.00	5,125.00	5,125.00	57.88	88.51	1.02	-5,566.26	1,848.71	4,681.45	4,572.82	108.63	43.094	
11,900.00	7,870.00	5,125.00	5,125.00	59.21	88.51	1.02	-5,566.26	1,848.71	4,600.34	4,492.33	108.01	42.592	
12,000.00	7,870.00	5,125.00	5,125.00	60.57	88.51	1.02	-5,566.26	1,848.71	4,519.99	4,412.61	107.38	42.095	
12,100.00	7,870.00	5,125.00	5,125.00	61.94	88.51	1.02	-5,566.26	1,848.71	4,440.44	4,333.70	106.73	41.603	
12,200.00	7,870.00	5,125.00	5,125.00	63.33	88.51	1.02	-5,566.26	1,848.71	4,361.72	4,255.64	106.08	41.117	
12,300.00	7,870.00	5,125.00	5,125.00	64.74	88.51	1.02	-5,566.26	1,848.71	4,283.90	4,178.48	105.42	40.637	
12,400.00	7,870.00	5,125.00	5,125.00	66.16	88.51	1.02	-5,566.26	1,848.71	4,207.01	4,102.27	104.75	40.164	
12,500.00	7,870.00	5,125.00	5,125.00	67.59	88.51	1.02	-5,566.26	1,848.71	4,131.12	4,027.05	104.07	39.697	
12,600.00	7,870.00	5,125.00	5,125.00	69.04	88.51	1.02	-5,566.26	1,848.71	4,056.27	3,952.89	103.38	39.237	
12,700.00	7,870.00	5,125.00	5,125.00	70.51	88.51	1.02	-5,566.26	1,848.71	3,982.52	3,879.84	102.68	38.785	
12,800.00	7,870.00	5,125.00	5,125.00	71.98	88.51	1.02	-5,566.26	1,848.71	3,909.94	3,807.96	101.98	38.341	
12,900.00	7,870.00	5,125.00	5,125.00	73.47	88.51	1.02	-5,566.26	1,848.71	3,838.59	3,737.33	101.27	37.906	
13,000.00	7,870.00	5,125.00	5,125.00	74.96	88.51	1.02	-5,566.26	1,848.71	3,768.55	3,668.00	100.55	37.481	
13,100.00	7,870.00	5,125.00	5,125.00	76.47	88.51	1.02	-5,566.26	1,848.71	3,699.88	3,600.07	99.82	37.066	
13,200.00	7,870.00	5,125.00	5,125.00	77.99	88.51	1.02	-5,566.26	1,848.71	3,632.67	3,533.59	99.08	36.663	
13,300.00	7,870.00	5,125.00	5,125.00	79.51	88.51	1.02	-5,566.26	1,848.71	3,567.00	3,468.66	98.34	36.272	
13,400.00	7,870.00	5,125.00	5,125.00	81.05	88.51	1.02	-5,566.26	1,848.71	3,502.95	3,405.36	97.59	35.896	
13,500.00	7,870.00	5,125.00	5,125.00	82.59	88.51	1.02	-5,566.26	1,848.71	3,440.61	3,343.79	96.82	35.535	
13,600.00	7,870.00	5,125.00	5,125.00	84.14	88.51	1.02	-5,566.26	1,848.71	3,380.09	3,284.04	96.05	35.191	
13,700.00	7,870.00	5,125.00	5,125.00	85.70	88.51	1.02	-5,566.26	1,848.71	3,321.47	3,226.21	95.26	34.867	
13,800.00	7,870.00	5,125.00	5,125.00	87.26	88.51	1.02	-5,566.26	1,848.71	3,264.86	3,170.40	94.46	34.564	
13,900.00	7,870.00	5,125.00	5,125.00	88.83	88.51	1.02	-5,566.26	1,848.71	3,210.37	3,116.73	93.64	34.283	
14,000.00	7,870.00	5,125.00	5,125.00	90.41	88.51	1.02	-5,566.26	1,848.71	3,158.11	3,065.30	92.81	34.029	
14,100.00	7,870.00	5,125.00	5,125.00	92.00	88.51	1.02	-5,566.26	1,848.71	3,108.18	3,016.23	91.95	33.802	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,125.00	5,125.00	93.59	88.51	1.02	-5,566.26	1,848.71	3,060.72	2,969.64	91.08	33.605	
14,300.00	7,870.00	5,125.00	5,125.00	95.18	88.51	1.02	-5,566.26	1,848.71	3,015.82	2,925.63	90.19	33.440	
14,400.00	7,870.00	5,125.00	5,125.00	96.79	88.51	1.02	-5,566.26	1,848.71	2,973.60	2,884.33	89.27	33.309	
14,500.00	7,870.00	5,125.00	5,125.00	98.39	88.51	1.02	-5,566.26	1,848.71	2,934.19	2,845.85	88.34	33.214	
14,600.00	7,870.00	5,125.00	5,125.00	100.00	88.51	1.02	-5,566.26	1,848.71	2,897.70	2,810.30	87.40	33.155	
14,700.00	7,870.00	5,125.00	5,125.00	101.62	88.51	1.02	-5,566.26	1,848.71	2,864.23	2,777.78	86.45	33.131	
14,800.00	7,870.00	5,125.00	5,125.00	103.24	88.51	1.02	-5,566.26	1,848.71	2,833.90	2,748.39	85.51	33.141	
14,900.00	7,870.00	5,125.00	5,125.00	104.87	88.51	1.02	-5,566.26	1,848.71	2,806.80	2,722.21	84.60	33.179	
15,000.00	7,870.00	5,125.00	5,125.00	106.50	88.51	1.02	-5,566.26	1,848.71	2,783.04	2,699.31	83.73	33.236	
15,100.00	7,870.00	5,125.00	5,125.00	108.13	88.51	1.02	-5,566.26	1,848.71	2,762.70	2,679.73	82.97	33.298	
15,200.00	7,870.00	5,125.00	5,125.00	109.77	88.51	1.02	-5,566.26	1,848.71	2,745.84	2,663.49	82.35	33.343	
15,300.00	7,870.00	5,125.00	5,125.00	111.41	88.51	1.02	-5,566.26	1,848.71	2,732.55	2,650.58	81.97	33.338	
15,400.00	7,870.00	5,125.00	5,125.00	113.05	88.51	1.02	-5,566.26	1,848.71	2,722.86	2,640.96	81.91	33.244	
15,500.00	7,870.00	5,125.00	5,125.00	114.70	88.51	1.02	-5,566.26	1,848.71	2,716.83	2,634.54	82.29	33.016	
15,600.00	7,870.00	5,125.00	5,125.00	116.35	88.51	1.02	-5,566.26	1,848.71	2,714.47	2,631.26	83.20	32.624	
15,614.16	7,870.00	5,125.00	5,125.00	116.58	88.51	1.02	-5,566.26	1,848.71	2,714.43	2,631.05	83.38	32.555	CC, ES
15,700.00	7,870.00	5,125.00	5,125.00	118.00	88.51	1.02	-5,566.26	1,848.71	2,715.79	2,631.09	84.70	32.065	
15,800.00	7,870.00	5,125.00	5,125.00	119.66	88.51	1.02	-5,566.26	1,848.71	2,720.78	2,634.05	86.73	31.371	
15,900.00	7,870.00	5,125.00	5,125.00	121.32	88.51	1.02	-5,566.26	1,848.71	2,729.44	2,640.23	89.21	30.596	
16,000.00	7,870.00	5,125.00	5,125.00	122.98	88.51	1.02	-5,566.26	1,848.71	2,741.71	2,649.71	92.01	29.800	
16,100.00	7,870.00	5,125.00	5,125.00	124.65	88.51	1.02	-5,566.26	1,848.71	2,757.56	2,662.56	95.00	29.026	
16,200.00	7,870.00	5,125.00	5,125.00	126.32	88.51	1.02	-5,566.26	1,848.71	2,776.93	2,678.82	98.11	28.304	
16,300.00	7,870.00	5,125.00	5,125.00	127.99	88.51	1.02	-5,566.26	1,848.71	2,799.73	2,698.48	101.25	27.653	
16,400.00	7,870.00	5,125.00	5,125.00	129.66	88.51	1.02	-5,566.26	1,848.71	2,825.89	2,721.53	104.36	27.078	
16,500.00	7,870.00	5,125.00	5,125.00	131.33	88.51	1.02	-5,566.26	1,848.71	2,855.32	2,747.90	107.42	26.582	
16,600.00	7,870.00	5,125.00	5,125.00	133.01	88.51	1.02	-5,566.26	1,848.71	2,887.91	2,777.52	110.38	26.163	
16,700.00	7,870.00	5,125.00	5,125.00	134.69	88.51	1.02	-5,566.26	1,848.71	2,923.55	2,810.31	113.24	25.817	
16,800.00	7,870.00	5,125.00	5,125.00	136.37	88.51	1.02	-5,566.26	1,848.71	2,962.15	2,846.17	115.98	25.541	
16,900.00	7,870.00	5,125.00	5,125.00	138.06	88.51	1.02	-5,566.26	1,848.71	3,003.58	2,885.00	118.58	25.329	
17,000.00	7,870.00	5,125.00	5,125.00	139.74	88.51	1.02	-5,566.26	1,848.71	3,047.73	2,926.68	121.05	25.177	
17,100.00	7,870.00	5,125.00	5,125.00	141.43	88.51	1.02	-5,566.26	1,848.71	3,094.48	2,971.09	123.39	25.079	
17,200.00	7,870.00	5,125.00	5,125.00	143.12	88.51	1.02	-5,566.26	1,848.71	3,143.72	3,018.13	125.59	25.032	
17,300.00	7,870.00	5,125.00	5,125.00	144.81	88.51	1.02	-5,566.26	1,848.71	3,195.34	3,067.68	127.66	25.031	SF
17,400.00	7,870.00	5,125.00	5,125.00	146.50	88.51	1.02	-5,566.26	1,848.71	3,249.21	3,119.61	129.59	25.072	
17,500.00	7,870.00	5,125.00	5,125.00	148.19	88.51	1.02	-5,566.26	1,848.71	3,305.22	3,173.82	131.41	25.153	
17,600.00	7,870.00	5,125.00	5,125.00	149.89	88.51	1.02	-5,566.26	1,848.71	3,363.28	3,230.19	133.10	25.269	
17,700.00	7,870.00	5,125.00	5,125.00	151.59	88.51	1.02	-5,566.26	1,848.71	3,423.28	3,288.61	134.67	25.419	
17,800.00	7,870.00	5,125.00	5,125.00	153.29	88.51	1.02	-5,566.26	1,848.71	3,485.11	3,348.97	136.14	25.599	
17,900.00	7,870.00	5,125.00	5,125.00	154.99	88.51	1.02	-5,566.26	1,848.71	3,548.69	3,411.18	137.51	25.808	
18,000.00	7,870.00	5,125.00	5,125.00	156.69	88.51	1.02	-5,566.26	1,848.71	3,613.91	3,475.14	138.77	26.042	
18,100.00	7,870.00	5,125.00	5,125.00	158.39	88.51	1.02	-5,566.26	1,848.71	3,680.69	3,540.74	139.95	26.300	
18,200.00	7,870.00	5,125.00	5,125.00	160.09	88.51	1.02	-5,566.26	1,848.71	3,748.96	3,607.92	141.04	26.581	
18,300.00	7,870.00	5,125.00	5,125.00	161.80	88.51	1.02	-5,566.26	1,848.71	3,818.62	3,676.57	142.05	26.882	
18,400.00	7,870.00	5,125.00	5,125.00	163.51	88.51	1.02	-5,566.26	1,848.71	3,889.60	3,746.61	142.99	27.202	
18,455.45	7,870.00	5,125.00	5,125.00	164.45	88.51	1.02	-5,566.26	1,848.71	3,929.51	3,786.03	143.48	27.387	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	150.19	-5,537.71	3,172.86	6,382.33				
100.00	100.00	69.00	69.00	0.13	0.56	150.19	-5,537.71	3,172.86	6,382.26	6,381.56	0.69	9,190.823	
200.00	200.00	169.00	169.00	0.49	2.02	150.19	-5,537.71	3,172.86	6,382.26	6,379.75	2.51	2,543.995	
300.00	300.00	269.00	269.00	0.85	3.76	150.19	-5,537.71	3,172.86	6,382.26	6,377.65	4.61	1,383.671	
400.00	400.00	369.00	369.00	1.21	5.51	150.19	-5,537.71	3,172.86	6,382.26	6,375.54	6.72	950.256	
500.00	500.00	469.00	469.00	1.57	7.25	150.19	-5,537.71	3,172.86	6,382.26	6,373.44	8.82	723.599	
600.00	600.00	569.00	569.00	1.93	9.00	150.19	-5,537.71	3,172.86	6,382.26	6,371.34	10.92	584.244	
700.00	700.00	669.00	669.00	2.29	10.74	150.19	-5,537.71	3,172.86	6,382.26	6,369.23	13.03	489.897	
800.00	800.00	769.00	769.00	2.64	12.49	150.19	-5,537.71	3,172.86	6,382.26	6,367.13	15.13	421.785	
900.00	900.00	869.00	869.00	3.00	14.23	150.19	-5,537.71	3,172.86	6,382.26	6,365.02	17.24	370.300	
1,000.00	1,000.00	969.00	969.00	3.36	15.98	150.19	-5,537.71	3,172.86	6,382.26	6,362.92	19.34	330.017	
1,100.00	1,100.00	1,069.00	1,069.00	3.72	17.72	150.19	-5,537.71	3,172.86	6,382.26	6,360.82	21.44	297.639	
1,200.00	1,200.00	1,169.00	1,169.00	4.08	19.47	150.19	-5,537.71	3,172.86	6,382.26	6,358.71	23.55	271.046	
1,300.00	1,300.00	1,269.00	1,269.00	4.44	21.21	150.19	-5,537.71	3,172.86	6,382.26	6,356.61	25.65	248.816	
1,400.00	1,399.98	1,368.98	1,368.98	4.79	22.96	107.25	-5,537.71	3,172.86	6,382.78	6,355.03	27.75	229.996	
1,500.00	1,499.84	1,468.84	1,468.84	5.15	24.70	107.27	-5,537.71	3,172.86	6,384.33	6,354.48	29.85	213.884	
1,600.00	1,599.45	1,568.45	1,568.45	5.51	26.44	107.29	-5,537.71	3,172.86	6,386.93	6,354.98	31.95	199.926	
1,700.00	1,698.70	1,667.70	1,667.70	5.87	28.17	107.32	-5,537.71	3,172.86	6,390.58	6,356.54	34.04	187.720	
1,800.00	1,797.47	1,766.47	1,766.47	6.24	29.90	107.37	-5,537.71	3,172.86	6,395.30	6,359.16	36.14	176.953	
1,900.00	1,895.62	1,864.62	1,864.62	6.63	31.61	107.42	-5,537.71	3,172.86	6,401.10	6,362.86	38.24	167.381	
2,000.00	1,993.06	1,962.06	1,962.06	7.04	33.31	107.47	-5,537.71	3,172.86	6,408.00	6,367.65	40.35	158.810	
2,100.00	2,089.64	2,058.64	2,058.64	7.48	35.00	107.53	-5,537.71	3,172.86	6,416.04	6,373.57	42.47	151.087	
2,200.00	2,185.27	2,154.27	2,154.27	7.94	36.67	107.59	-5,537.71	3,172.86	6,425.22	6,380.63	44.59	144.087	
2,300.00	2,279.82	2,248.82	2,248.82	8.45	38.32	107.66	-5,537.71	3,172.86	6,435.60	6,388.86	46.73	137.711	
2,400.00	2,373.17	2,342.17	2,342.17	8.99	39.94	107.72	-5,537.71	3,172.86	6,447.18	6,398.30	48.89	131.877	
2,500.00	2,465.21	2,434.21	2,434.21	9.58	41.55	107.78	-5,537.71	3,172.86	6,460.02	6,408.96	51.06	126.518	
2,574.08	2,532.50	2,501.50	2,501.50	10.04	42.73	107.82	-5,537.71	3,172.86	6,470.36	6,417.68	52.68	122.823	
2,600.00	2,555.89	2,524.89	2,524.89	10.21	43.13	107.91	-5,537.71	3,172.86	6,474.11	6,420.86	53.25	121.581	
2,700.00	2,646.16	2,615.16	2,615.16	10.88	44.71	108.24	-5,537.71	3,172.86	6,488.73	6,433.27	55.46	117.000	
2,800.00	2,736.44	2,705.44	2,705.44	11.57	46.29	108.57	-5,537.71	3,172.86	6,503.61	6,445.92	57.69	112.740	
2,900.00	2,826.71	2,804.29	2,795.71	12.27	48.01	108.89	-5,537.71	3,172.86	6,518.74	6,458.66	60.08	108.503	
3,000.00	2,916.98	2,885.98	2,885.98	13.00	49.44	109.22	-5,537.71	3,172.86	6,534.12	6,471.93	62.18	105.078	
3,100.00	3,007.25	2,976.25	2,976.25	13.73	51.01	109.55	-5,537.71	3,172.86	6,549.74	6,485.29	64.45	101.630	
3,200.00	3,097.52	3,066.52	3,066.52	14.48	52.59	109.87	-5,537.71	3,172.86	6,565.61	6,498.89	66.72	98.408	
3,300.00	3,187.80	3,156.80	3,156.80	15.23	54.16	110.19	-5,537.71	3,172.86	6,581.72	6,512.72	69.00	95.394	
3,400.00	3,278.07	3,247.07	3,247.07	15.99	55.74	110.51	-5,537.71	3,172.86	6,598.07	6,526.79	71.28	92.570	
3,500.00	3,368.34	3,337.34	3,337.34	16.76	57.31	110.83	-5,537.71	3,172.86	6,614.66	6,541.10	73.56	89.919	
3,600.00	3,458.61	3,427.61	3,427.61	17.54	58.89	111.15	-5,537.71	3,172.86	6,631.49	6,555.64	75.85	87.428	
3,700.00	3,548.89	3,517.89	3,517.89	18.32	60.46	111.47	-5,537.71	3,172.86	6,648.55	6,570.41	78.14	85.084	
3,800.00	3,639.16	3,608.16	3,608.16	19.10	62.04	111.78	-5,537.71	3,172.86	6,665.85	6,585.42	80.43	82.874	
3,900.00	3,729.43	3,701.57	3,698.43	19.89	63.67	112.10	-5,537.71	3,172.86	6,683.38	6,600.60	82.78	80.736	
4,000.00	3,819.70	3,788.70	3,788.70	20.69	65.19	112.41	-5,537.71	3,172.86	6,701.15	6,616.13	85.02	78.819	
4,100.00	3,909.98	3,878.98	3,878.98	21.48	66.77	112.72	-5,537.71	3,172.86	6,719.13	6,631.82	87.31	76.954	
4,200.00	4,000.25	3,969.25	3,969.25	22.28	68.34	113.03	-5,537.71	3,172.86	6,737.35	6,647.75	89.61	75.188	
4,300.00	4,090.52	4,059.52	4,059.52	23.08	69.92	113.34	-5,537.71	3,172.86	6,755.79	6,663.89	91.90	73.513	
4,400.00	4,180.79	4,149.79	4,149.79	23.88	71.49	113.65	-5,537.71	3,172.86	6,774.46	6,680.27	94.19	71.923	
4,500.00	4,271.06	4,240.06	4,240.06	24.69	73.07	113.95	-5,537.71	3,172.86	6,793.34	6,696.86	96.48	70.411	
4,600.00	4,361.34	4,330.34	4,330.34	25.49	74.64	114.26	-5,537.71	3,172.86	6,812.45	6,713.68	98.77	68.972	
4,700.00	4,451.61	4,420.61	4,420.61	26.30	76.22	114.56	-5,537.71	3,172.86	6,831.77	6,730.71	101.06	67.602	
4,800.00	4,541.88	4,510.88	4,510.88	27.11	77.80	114.86	-5,537.71	3,172.86	6,851.31	6,747.96	103.35	66.295	
4,900.00	4,632.15	4,601.15	4,601.15	27.92	79.37	115.16	-5,537.71	3,172.86	6,871.06	6,765.43	105.63	65.049	
5,000.00	4,722.43	4,708.57	4,691.43	28.74	81.25	115.46	-5,537.71	3,172.86	6,891.02	6,782.81	108.21	63.681	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,781.70	4,781.70	29.55	82.52	115.75	-5,537.71	3,172.86	6,911.20	6,801.00	110.19	62.719	
5,200.00	4,902.97	4,871.97	4,871.97	30.37	84.10	116.05	-5,537.71	3,172.86	6,931.58	6,819.11	112.47	61.629	
5,300.00	4,993.24	4,962.24	4,962.24	31.18	85.67	116.34	-5,537.71	3,172.86	6,952.17	6,837.42	114.75	60.586	
5,400.00	5,083.51	5,052.51	5,052.51	32.00	87.25	116.64	-5,537.71	3,172.86	6,972.96	6,855.94	117.02	59.586	
5,500.00	5,173.79	5,142.79	5,142.79	32.82	88.82	116.93	-5,537.71	3,172.86	6,993.96	6,874.66	119.29	58.627	
5,600.00	5,264.06	5,148.00	5,148.00	33.63	88.92	116.94	-5,537.71	3,172.86	7,015.67	6,895.63	120.05	58.442	
5,700.00	5,354.33	5,148.00	5,148.00	34.45	88.92	116.94	-5,537.71	3,172.86	7,038.74	6,918.06	120.68	58.325	
5,800.00	5,444.60	5,148.00	5,148.00	35.27	88.92	116.94	-5,537.71	3,172.86	7,063.14	6,941.85	121.29	58.232	
5,900.00	5,534.88	5,148.00	5,148.00	36.09	88.92	116.94	-5,537.71	3,172.86	7,088.87	6,966.99	121.88	58.162	
6,000.00	5,625.15	5,148.00	5,148.00	36.91	88.92	116.94	-5,537.71	3,172.86	7,115.92	6,993.47	122.45	58.113	
6,100.00	5,715.42	5,148.00	5,148.00	37.74	88.92	116.94	-5,537.71	3,172.86	7,144.26	7,021.27	122.99	58.087	
6,200.00	5,805.69	5,148.00	5,148.00	38.56	88.92	116.94	-5,537.71	3,172.86	7,173.88	7,050.37	123.52	58.081	
6,300.00	5,895.96	5,148.00	5,148.00	39.38	88.92	116.94	-5,537.71	3,172.86	7,204.78	7,080.76	124.02	58.096	
6,400.00	5,986.24	5,148.00	5,148.00	40.20	88.92	116.94	-5,537.71	3,172.86	7,236.92	7,112.42	124.49	58.131	
6,500.00	6,076.51	5,148.00	5,148.00	41.03	88.92	116.94	-5,537.71	3,172.86	7,270.29	7,145.34	124.95	58.185	
6,600.00	6,166.78	5,148.00	5,148.00	41.85	88.92	116.94	-5,537.71	3,172.86	7,304.88	7,179.49	125.39	58.259	
6,700.00	6,257.05	5,148.00	5,148.00	42.67	88.92	116.94	-5,537.71	3,172.86	7,340.67	7,214.87	125.80	58.351	
6,800.00	6,347.33	5,148.00	5,148.00	43.50	88.92	116.94	-5,537.71	3,172.86	7,377.64	7,251.45	126.20	58.462	
6,900.00	6,437.60	5,148.00	5,148.00	44.32	88.92	116.94	-5,537.71	3,172.86	7,415.78	7,289.21	126.57	58.590	
7,000.00	6,527.87	5,148.00	5,148.00	45.15	88.92	116.94	-5,537.71	3,172.86	7,455.06	7,328.13	126.93	58.735	
7,100.00	6,618.14	5,148.00	5,148.00	45.98	88.92	116.94	-5,537.71	3,172.86	7,495.47	7,368.21	127.26	58.897	
7,200.00	6,708.41	5,148.00	5,148.00	46.80	88.92	116.94	-5,537.71	3,172.86	7,536.99	7,409.41	127.58	59.076	
7,300.00	6,798.69	5,148.00	5,148.00	47.63	88.92	116.94	-5,537.71	3,172.86	7,579.61	7,451.72	127.88	59.270	
7,400.00	6,888.96	5,148.00	5,148.00	48.45	88.92	116.94	-5,537.71	3,172.86	7,623.29	7,495.13	128.16	59.480	
7,500.00	6,979.23	5,148.00	5,148.00	49.28	88.92	116.94	-5,537.71	3,172.86	7,668.03	7,539.60	128.43	59.706	
7,600.00	7,069.50	5,148.00	5,148.00	50.11	88.92	116.94	-5,537.71	3,172.86	7,713.81	7,585.13	128.68	59.946	
7,692.09	7,152.63	5,148.00	5,148.00	50.87	88.92	116.94	-5,537.71	3,172.86	7,756.87	7,627.97	128.90	60.180	
7,700.00	7,159.79	5,148.00	5,148.00	50.93	88.92	115.85	-5,537.71	3,172.86	7,760.56	7,631.65	128.91	60.200	
7,750.00	7,205.70	5,148.00	5,148.00	51.32	88.92	107.48	-5,537.71	3,172.86	7,781.89	7,652.87	129.01	60.319	
7,800.00	7,252.52	5,148.00	5,148.00	51.66	88.92	96.27	-5,537.71	3,172.86	7,799.63	7,670.55	129.09	60.421	
7,850.00	7,299.89	5,148.00	5,148.00	51.96	88.92	82.43	-5,537.71	3,172.86	7,813.70	7,684.56	129.14	60.506	
7,900.00	7,347.44	5,148.00	5,148.00	52.20	88.92	67.35	-5,537.71	3,172.86	7,823.99	7,694.82	129.16	60.575	
7,950.00	7,394.83	5,148.00	5,148.00	52.39	88.92	53.18	-5,537.71	3,172.86	7,830.44	7,701.29	129.15	60.629	
8,000.00	7,441.68	5,148.00	5,148.00	52.53	88.92	41.36	-5,537.71	3,172.86	7,833.02	7,703.91	129.11	60.668	
8,050.00	7,487.65	5,148.00	5,148.00	52.62	88.92	32.14	-5,537.71	3,172.86	7,831.71	7,702.67	129.04	60.691	
8,100.00	7,532.37	5,148.00	5,148.00	52.67	88.92	25.07	-5,537.71	3,172.86	7,826.51	7,697.57	128.94	60.697	
8,150.00	7,575.52	5,148.00	5,148.00	52.67	88.92	19.60	-5,537.71	3,172.86	7,817.47	7,688.65	128.82	60.686	
8,200.00	7,616.76	5,148.00	5,148.00	52.63	88.92	15.25	-5,537.71	3,172.86	7,804.63	7,675.96	128.67	60.656	
8,250.00	7,655.77	5,148.00	5,148.00	52.55	88.92	11.68	-5,537.71	3,172.86	7,788.07	7,659.57	128.50	60.607	
8,300.00	7,692.27	5,148.00	5,148.00	52.44	88.92	8.63	-5,537.71	3,172.86	7,767.90	7,639.58	128.31	60.538	
8,350.00	7,725.97	5,148.00	5,148.00	52.29	88.92	5.92	-5,537.71	3,172.86	7,744.24	7,616.13	128.11	60.450	
8,400.00	7,756.62	5,148.00	5,148.00	52.12	88.92	3.39	-5,537.71	3,172.86	7,717.24	7,589.35	127.89	60.341	
8,450.00	7,783.98	5,148.00	5,148.00	51.92	88.92	0.93	-5,537.71	3,172.86	7,687.08	7,559.41	127.67	60.212	
8,500.00	7,807.85	5,148.00	5,148.00	51.70	88.92	-1.61	-5,537.71	3,172.86	7,653.94	7,526.51	127.43	60.062	
8,550.00	7,828.05	5,148.00	5,148.00	51.45	88.92	-4.34	-5,537.71	3,172.86	7,618.04	7,490.85	127.20	59.892	
8,600.00	7,844.41	5,148.00	5,148.00	51.20	88.92	-7.43	-5,537.71	3,172.86	7,579.62	7,452.66	126.96	59.701	
8,650.00	7,856.82	5,148.00	5,148.00	50.93	88.92	-11.11	-5,537.71	3,172.86	7,538.94	7,412.21	126.73	59.490	
8,700.00	7,865.18	5,148.00	5,148.00	50.65	88.92	-15.67	-5,537.71	3,172.86	7,496.26	7,369.76	126.50	59.259	
8,750.00	7,869.43	5,148.00	5,148.00	50.36	88.92	-21.55	-5,537.71	3,172.86	7,451.89	7,325.61	126.28	59.010	
8,776.25	7,870.00	5,148.00	5,148.00	50.21	88.92	-25.37	-5,537.71	3,172.86	7,428.01	7,301.84	126.17	58.871	
8,800.00	7,870.00	5,148.00	5,148.00	50.08	88.92	-25.37	-5,537.71	3,172.86	7,406.26	7,280.19	126.08	58.744	
8,900.00	7,870.00	5,148.00	5,148.00	49.53	88.92	-25.37	-5,537.71	3,172.86	7,314.82	7,189.16	125.66	58.212	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,148.00	5,148.00	49.01	88.92	-25.37	-5,537.71	3,172.86	7,223.59	7,098.36	125.23	57.682	
9,100.00	7,870.00	5,148.00	5,148.00	48.52	88.92	-25.37	-5,537.71	3,172.86	7,132.61	7,007.81	124.80	57.153	
9,200.00	7,870.00	5,148.00	5,148.00	48.06	88.92	-25.37	-5,537.71	3,172.86	7,041.86	6,917.51	124.36	56.626	
9,300.00	7,870.00	5,148.00	5,148.00	47.63	88.92	-25.37	-5,537.71	3,172.86	6,951.38	6,827.47	123.91	56.101	
9,400.00	7,870.00	5,148.00	5,148.00	47.22	88.92	-25.37	-5,537.71	3,172.86	6,861.15	6,737.70	123.45	55.578	
9,500.00	7,870.00	5,148.00	5,148.00	46.83	88.92	-25.37	-5,537.71	3,172.86	6,771.20	6,648.22	122.99	55.057	
9,600.00	7,870.00	5,148.00	5,148.00	46.48	88.92	-25.37	-5,537.71	3,172.86	6,681.54	6,559.03	122.51	54.538	
9,700.00	7,870.00	5,148.00	5,148.00	46.14	88.92	-25.37	-5,537.71	3,172.86	6,592.17	6,470.14	122.03	54.020	
9,800.00	7,870.00	5,148.00	5,148.00	45.83	88.92	-25.37	-5,537.71	3,172.86	6,503.12	6,381.57	121.54	53.504	
9,900.00	7,870.00	5,148.00	5,148.00	45.54	88.92	-25.37	-5,537.71	3,172.86	6,414.38	6,293.33	121.05	52.990	
10,000.00	7,870.00	5,148.00	5,148.00	45.27	88.92	-25.37	-5,537.71	3,172.86	6,325.98	6,205.44	120.55	52.478	
10,100.00	7,870.00	5,148.00	5,148.00	45.03	88.92	-25.37	-5,537.71	3,172.86	6,237.94	6,117.90	120.04	51.967	
10,200.00	7,870.00	5,148.00	5,148.00	44.82	88.92	-25.37	-5,537.71	3,172.86	6,150.25	6,030.73	119.52	51.458	
10,300.00	7,870.00	5,148.00	5,148.00	44.66	88.92	-25.37	-5,537.71	3,172.86	6,062.95	5,943.95	119.00	50.950	
10,400.00	7,870.00	5,148.00	5,148.00	44.56	88.92	-25.37	-5,537.71	3,172.86	5,976.05	5,857.58	118.47	50.443	
10,500.00	7,870.00	5,148.00	5,148.00	44.58	88.92	-25.37	-5,537.71	3,172.86	5,889.56	5,771.63	117.94	49.938	
10,600.00	7,870.00	5,148.00	5,148.00	44.82	88.92	-25.37	-5,537.71	3,172.86	5,803.51	5,686.11	117.40	49.434	
10,700.00	7,870.00	5,148.00	5,148.00	45.36	88.92	-25.37	-5,537.71	3,172.86	5,717.91	5,601.05	116.86	48.930	
10,800.00	7,870.00	5,148.00	5,148.00	46.15	88.92	-25.37	-5,537.71	3,172.86	5,632.79	5,516.47	116.32	48.427	
10,900.00	7,870.00	5,148.00	5,148.00	47.09	88.92	-25.37	-5,537.71	3,172.86	5,548.16	5,432.39	115.77	47.924	
11,000.00	7,870.00	5,148.00	5,148.00	48.13	88.92	-25.37	-5,537.71	3,172.86	5,464.05	5,348.82	115.22	47.421	
11,100.00	7,870.00	5,148.00	5,148.00	49.22	88.92	-25.37	-5,537.71	3,172.86	5,380.48	5,265.80	114.68	46.918	
11,200.00	7,870.00	5,148.00	5,148.00	50.37	88.92	-25.37	-5,537.71	3,172.86	5,297.49	5,183.35	114.14	46.414	
11,300.00	7,870.00	5,148.00	5,148.00	51.55	88.92	-25.37	-5,537.71	3,172.86	5,215.09	5,101.49	113.60	45.909	
11,400.00	7,870.00	5,148.00	5,148.00	52.76	88.92	-25.37	-5,537.71	3,172.86	5,133.32	5,020.25	113.06	45.403	
11,500.00	7,870.00	5,148.00	5,148.00	54.00	88.92	-25.37	-5,537.71	3,172.86	5,052.20	4,939.66	112.54	44.894	
11,600.00	7,870.00	5,148.00	5,148.00	55.27	88.92	-25.37	-5,537.71	3,172.86	4,971.77	4,859.75	112.02	44.383	
11,700.00	7,870.00	5,148.00	5,148.00	56.56	88.92	-25.37	-5,537.71	3,172.86	4,892.06	4,780.55	111.51	43.870	
11,800.00	7,870.00	5,148.00	5,148.00	57.88	88.92	-25.37	-5,537.71	3,172.86	4,813.11	4,702.09	111.02	43.353	
11,900.00	7,870.00	5,148.00	5,148.00	59.21	88.92	-25.37	-5,537.71	3,172.86	4,734.96	4,624.41	110.55	42.832	
12,000.00	7,870.00	5,148.00	5,148.00	60.57	88.92	-25.37	-5,537.71	3,172.86	4,657.64	4,547.55	110.09	42.307	
12,100.00	7,870.00	5,148.00	5,148.00	61.94	88.92	-25.37	-5,537.71	3,172.86	4,581.20	4,471.54	109.66	41.777	
12,200.00	7,870.00	5,148.00	5,148.00	63.33	88.92	-25.37	-5,537.71	3,172.86	4,505.68	4,396.43	109.25	41.242	
12,300.00	7,870.00	5,148.00	5,148.00	64.74	88.92	-25.37	-5,537.71	3,172.86	4,431.13	4,322.26	108.87	40.702	
12,400.00	7,870.00	5,148.00	5,148.00	66.16	88.92	-25.37	-5,537.71	3,172.86	4,357.60	4,249.09	108.52	40.156	
12,500.00	7,870.00	5,148.00	5,148.00	67.59	88.92	-25.37	-5,537.71	3,172.86	4,285.14	4,176.95	108.20	39.605	
12,600.00	7,870.00	5,148.00	5,148.00	69.04	88.92	-25.37	-5,537.71	3,172.86	4,213.82	4,105.90	107.91	39.048	
12,700.00	7,870.00	5,148.00	5,148.00	70.51	88.92	-25.37	-5,537.71	3,172.86	4,143.67	4,036.01	107.67	38.486	
12,800.00	7,870.00	5,148.00	5,148.00	71.98	88.92	-25.37	-5,537.71	3,172.86	4,074.78	3,967.31	107.46	37.919	
12,900.00	7,870.00	5,148.00	5,148.00	73.47	88.92	-25.37	-5,537.71	3,172.86	4,007.19	3,899.89	107.30	37.347	
13,000.00	7,870.00	5,148.00	5,148.00	74.96	88.92	-25.37	-5,537.71	3,172.86	3,940.98	3,833.81	107.18	36.771	
13,100.00	7,870.00	5,148.00	5,148.00	76.47	88.92	-25.37	-5,537.71	3,172.86	3,876.23	3,769.12	107.10	36.192	
13,200.00	7,870.00	5,148.00	5,148.00	77.99	88.92	-25.37	-5,537.71	3,172.86	3,812.99	3,705.92	107.07	35.611	
13,300.00	7,870.00	5,148.00	5,148.00	79.51	88.92	-25.37	-5,537.71	3,172.86	3,751.36	3,644.27	107.09	35.030	
13,400.00	7,870.00	5,148.00	5,148.00	81.05	88.92	-25.37	-5,537.71	3,172.86	3,691.40	3,584.25	107.16	34.449	
13,500.00	7,870.00	5,148.00	5,148.00	82.59	88.92	-25.37	-5,537.71	3,172.86	3,633.21	3,525.94	107.27	33.869	
13,600.00	7,870.00	5,148.00	5,148.00	84.14	88.92	-25.37	-5,537.71	3,172.86	3,576.87	3,469.44	107.43	33.293	
13,700.00	7,870.00	5,148.00	5,148.00	85.70	88.92	-25.37	-5,537.71	3,172.86	3,522.47	3,414.82	107.65	32.722	
13,800.00	7,870.00	5,148.00	5,148.00	87.26	88.92	-25.37	-5,537.71	3,172.86	3,470.09	3,362.18	107.91	32.157	
13,900.00	7,870.00	5,148.00	5,148.00	88.83	88.92	-25.37	-5,537.71	3,172.86	3,419.84	3,311.62	108.22	31.600	
14,000.00	7,870.00	5,148.00	5,148.00	90.41	88.92	-25.37	-5,537.71	3,172.86	3,371.81	3,263.23	108.59	31.052	
14,100.00	7,870.00	5,148.00	5,148.00	92.00	88.92	-25.37	-5,537.71	3,172.86	3,326.09	3,217.09	109.00	30.515	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,148.00	5,148.00	93.59	88.92	-25.37	-5,537.71	3,172.86	3,282.78	3,173.32	109.47	29.989	
14,300.00	7,870.00	5,148.00	5,148.00	95.18	88.92	-25.37	-5,537.71	3,172.86	3,241.98	3,131.99	109.99	29.475	
14,400.00	7,870.00	5,148.00	5,148.00	96.79	88.92	-25.37	-5,537.71	3,172.86	3,203.78	3,093.21	110.57	28.975	
14,500.00	7,870.00	5,148.00	5,148.00	98.39	88.92	-25.37	-5,537.71	3,172.86	3,168.28	3,057.07	111.21	28.489	
14,600.00	7,870.00	5,148.00	5,148.00	100.00	88.92	-25.37	-5,537.71	3,172.86	3,135.56	3,023.65	111.92	28.017	
14,700.00	7,870.00	5,148.00	5,148.00	101.62	88.92	-25.37	-5,537.71	3,172.86	3,105.73	2,993.03	112.70	27.559	
14,800.00	7,870.00	5,148.00	5,148.00	103.24	88.92	-25.37	-5,537.71	3,172.86	3,078.85	2,965.30	113.55	27.114	
14,900.00	7,870.00	5,148.00	5,148.00	104.87	88.92	-25.37	-5,537.71	3,172.86	3,055.01	2,940.52	114.49	26.684	
15,000.00	7,870.00	5,148.00	5,148.00	106.50	88.92	-25.37	-5,537.71	3,172.86	3,034.28	2,918.76	115.52	26.266	
15,100.00	7,870.00	5,148.00	5,148.00	108.13	88.92	-25.37	-5,537.71	3,172.86	3,016.73	2,900.08	116.65	25.861	
15,200.00	7,870.00	5,148.00	5,148.00	109.77	88.92	-25.37	-5,537.71	3,172.86	3,002.40	2,884.52	117.89	25.469	
15,300.00	7,870.00	5,148.00	5,148.00	111.41	88.92	-25.37	-5,537.71	3,172.86	2,991.35	2,872.12	119.23	25.088	
15,400.00	7,870.00	5,148.00	5,148.00	113.05	88.92	-25.37	-5,537.71	3,172.86	2,983.62	2,862.93	120.69	24.721	
15,500.00	7,870.00	5,148.00	5,148.00	114.70	88.92	-25.37	-5,537.71	3,172.86	2,979.22	2,856.95	122.27	24.366	
15,581.12	7,870.00	5,148.00	5,148.00	116.04	88.92	-25.37	-5,537.71	3,172.86	2,978.12	2,854.49	123.63	24.090	CC
15,600.00	7,870.00	5,148.00	5,148.00	116.35	88.92	-25.37	-5,537.71	3,172.86	2,978.18	2,854.22	123.95	24.027	ES
15,700.00	7,870.00	5,148.00	5,148.00	118.00	88.92	-25.37	-5,537.71	3,172.86	2,980.49	2,854.74	125.75	23.703	
15,800.00	7,870.00	5,148.00	5,148.00	119.66	88.92	-25.37	-5,537.71	3,172.86	2,986.15	2,858.51	127.63	23.396	
15,900.00	7,870.00	5,148.00	5,148.00	121.32	88.92	-25.37	-5,537.71	3,172.86	2,995.14	2,865.54	129.60	23.110	
16,000.00	7,870.00	5,148.00	5,148.00	122.98	88.92	-25.37	-5,537.71	3,172.86	3,007.43	2,875.79	131.64	22.846	
16,100.00	7,870.00	5,148.00	5,148.00	124.65	88.92	-25.37	-5,537.71	3,172.86	3,022.98	2,889.25	133.73	22.606	
16,200.00	7,870.00	5,148.00	5,148.00	126.32	88.92	-25.37	-5,537.71	3,172.86	3,041.74	2,905.90	135.84	22.392	
16,300.00	7,870.00	5,148.00	5,148.00	127.99	88.92	-25.37	-5,537.71	3,172.86	3,063.65	2,925.68	137.97	22.205	
16,400.00	7,870.00	5,148.00	5,148.00	129.66	88.92	-25.37	-5,537.71	3,172.86	3,088.65	2,948.55	140.10	22.047	
16,500.00	7,870.00	5,148.00	5,148.00	131.33	88.92	-25.37	-5,537.71	3,172.86	3,116.65	2,974.45	142.20	21.918	
16,600.00	7,870.00	5,148.00	5,148.00	133.01	88.92	-25.37	-5,537.71	3,172.86	3,147.58	3,003.32	144.26	21.819	
16,700.00	7,870.00	5,148.00	5,148.00	134.69	88.92	-25.37	-5,537.71	3,172.86	3,181.36	3,035.09	146.27	21.750	
16,800.00	7,870.00	5,148.00	5,148.00	136.37	88.92	-25.37	-5,537.71	3,172.86	3,217.89	3,069.67	148.22	21.710	
16,900.00	7,870.00	5,148.00	5,148.00	138.06	88.92	-25.37	-5,537.71	3,172.86	3,257.09	3,106.98	150.11	21.698	SF
17,000.00	7,870.00	5,148.00	5,148.00	139.74	88.92	-25.37	-5,537.71	3,172.86	3,298.85	3,146.93	151.91	21.715	
17,100.00	7,870.00	5,148.00	5,148.00	141.43	88.92	-25.37	-5,537.71	3,172.86	3,343.08	3,189.44	153.64	21.760	
17,200.00	7,870.00	5,148.00	5,148.00	143.12	88.92	-25.37	-5,537.71	3,172.86	3,389.68	3,234.41	155.27	21.830	
17,300.00	7,870.00	5,148.00	5,148.00	144.81	88.92	-25.37	-5,537.71	3,172.86	3,438.56	3,281.74	156.83	21.926	
17,400.00	7,870.00	5,148.00	5,148.00	146.50	88.92	-25.37	-5,537.71	3,172.86	3,489.63	3,331.34	158.29	22.046	
17,500.00	7,870.00	5,148.00	5,148.00	148.19	88.92	-25.37	-5,537.71	3,172.86	3,542.78	3,383.11	159.67	22.188	
17,600.00	7,870.00	5,148.00	5,148.00	149.89	88.92	-25.37	-5,537.71	3,172.86	3,597.92	3,436.96	160.96	22.353	
17,700.00	7,870.00	5,148.00	5,148.00	151.59	88.92	-25.37	-5,537.71	3,172.86	3,654.97	3,492.80	162.17	22.538	
17,800.00	7,870.00	5,148.00	5,148.00	153.29	88.92	-25.37	-5,537.71	3,172.86	3,713.84	3,550.54	163.30	22.743	
17,900.00	7,870.00	5,148.00	5,148.00	154.99	88.92	-25.37	-5,537.71	3,172.86	3,774.44	3,610.09	164.35	22.966	
18,000.00	7,870.00	5,148.00	5,148.00	156.69	88.92	-25.37	-5,537.71	3,172.86	3,836.69	3,671.36	165.32	23.207	
18,100.00	7,870.00	5,148.00	5,148.00	158.39	88.92	-25.37	-5,537.71	3,172.86	3,900.50	3,734.28	166.23	23.465	
18,200.00	7,870.00	5,148.00	5,148.00	160.09	88.92	-25.37	-5,537.71	3,172.86	3,965.82	3,798.76	167.06	23.739	
18,300.00	7,870.00	5,148.00	5,148.00	161.80	88.92	-25.37	-5,537.71	3,172.86	4,032.55	3,864.72	167.83	24.027	
18,400.00	7,870.00	5,148.00	5,148.00	163.51	88.92	-25.37	-5,537.71	3,172.86	4,100.64	3,932.10	168.54	24.330	
18,455.45	7,870.00	5,148.00	5,148.00	164.45	88.92	-25.37	-5,537.71	3,172.86	4,138.95	3,970.04	168.91	24.503	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	147.00	-6,842.76	4,444.31	8,159.40				
100.00	100.00	76.00	76.00	0.13	0.63	147.00	-6,842.76	4,444.31	8,159.36	8,158.60	0.76	N/A	
200.00	200.00	176.00	176.00	0.49	2.16	147.00	-6,842.76	4,444.31	8,159.36	8,156.71	2.65	3,080.886	
300.00	300.00	276.00	276.00	0.85	3.90	147.00	-6,842.76	4,444.31	8,159.36	8,154.61	4.75	1,716.972	
400.00	400.00	376.00	376.00	1.21	5.65	147.00	-6,842.76	4,444.31	8,159.36	8,152.51	6.86	1,190.108	
500.00	500.00	476.00	476.00	1.57	7.39	147.00	-6,842.76	4,444.31	8,159.36	8,150.40	8.96	910.665	
600.00	600.00	576.00	576.00	1.93	9.14	147.00	-6,842.76	4,444.31	8,159.36	8,148.30	11.06	737.497	
700.00	700.00	676.00	676.00	2.29	10.88	147.00	-6,842.76	4,444.31	8,159.36	8,146.19	13.17	619.664	
800.00	800.00	776.00	776.00	2.64	12.63	147.00	-6,842.76	4,444.31	8,159.36	8,144.09	15.27	534.298	
900.00	900.00	876.00	876.00	3.00	14.37	147.00	-6,842.76	4,444.31	8,159.36	8,141.99	17.37	469.604	
1,000.00	1,000.00	976.00	976.00	3.36	16.12	147.00	-6,842.76	4,444.31	8,159.36	8,139.88	19.48	418.884	
1,100.00	1,100.00	1,076.00	1,076.00	3.72	17.86	147.00	-6,842.76	4,444.31	8,159.36	8,137.78	21.58	378.053	
1,200.00	1,200.00	1,176.00	1,176.00	4.08	19.61	147.00	-6,842.76	4,444.31	8,159.36	8,135.68	23.69	344.475	
1,300.00	1,300.00	1,276.00	1,276.00	4.44	21.35	147.00	-6,842.76	4,444.31	8,159.36	8,133.57	25.79	316.375	
1,400.00	1,399.98	1,375.98	1,375.98	4.79	23.10	104.06	-6,842.76	4,444.31	8,159.79	8,131.89	27.89	292.557	
1,500.00	1,499.84	1,475.84	1,475.84	5.15	24.84	104.07	-6,842.76	4,444.31	8,161.06	8,131.07	29.99	272.135	
1,600.00	1,599.45	1,575.45	1,575.45	5.51	26.58	104.09	-6,842.76	4,444.31	8,163.19	8,131.10	32.09	254.417	
1,700.00	1,698.70	1,674.70	1,674.70	5.87	28.31	104.11	-6,842.76	4,444.31	8,166.18	8,131.99	34.18	238.899	
1,800.00	1,797.47	1,773.47	1,773.47	6.24	30.04	104.14	-6,842.76	4,444.31	8,170.04	8,133.76	36.28	225.189	
1,900.00	1,895.62	1,871.62	1,871.62	6.63	31.75	104.18	-6,842.76	4,444.31	8,174.79	8,136.41	38.38	212.979	
2,000.00	1,993.06	1,969.06	1,969.06	7.04	33.45	104.21	-6,842.76	4,444.31	8,180.44	8,139.95	40.49	202.027	
2,100.00	2,089.64	2,065.64	2,065.64	7.48	35.14	104.26	-6,842.76	4,444.31	8,187.02	8,144.41	42.61	192.140	
2,200.00	2,185.27	2,161.27	2,161.27	7.94	36.80	104.30	-6,842.76	4,444.31	8,194.54	8,149.80	44.74	183.161	
2,300.00	2,279.82	2,255.82	2,255.82	8.45	38.46	104.35	-6,842.76	4,444.31	8,203.03	8,156.14	46.88	174.964	
2,400.00	2,373.17	2,349.17	2,349.17	8.99	40.08	104.39	-6,842.76	4,444.31	8,212.51	8,163.46	49.05	167.448	
2,500.00	2,465.21	2,441.21	2,441.21	9.58	41.69	104.43	-6,842.76	4,444.31	8,223.01	8,171.79	51.23	160.527	
2,574.08	2,532.50	2,508.50	2,508.50	10.04	42.87	104.45	-6,842.76	4,444.31	8,231.47	8,178.62	52.85	155.744	
2,600.00	2,555.89	2,531.89	2,531.89	10.21	43.27	104.52	-6,842.76	4,444.31	8,234.54	8,181.12	53.42	154.135	
2,700.00	2,646.16	2,622.16	2,622.16	10.88	44.85	104.78	-6,842.76	4,444.31	8,246.51	8,190.86	55.65	148.196	
2,800.00	2,736.44	2,712.44	2,712.44	11.57	46.42	105.05	-6,842.76	4,444.31	8,258.69	8,200.80	57.89	142.670	
2,900.00	2,826.71	2,802.71	2,802.71	12.27	48.00	105.31	-6,842.76	4,444.31	8,271.07	8,210.93	60.14	137.523	
3,000.00	2,916.98	2,907.02	2,892.98	13.00	49.82	105.57	-6,842.76	4,444.31	8,283.66	8,221.00	62.66	132.206	
3,100.00	3,007.25	2,983.25	2,983.25	13.73	51.15	105.83	-6,842.76	4,444.31	8,296.45	8,231.76	64.69	128.245	
3,200.00	3,097.52	3,073.52	3,073.52	14.48	52.73	106.09	-6,842.76	4,444.31	8,309.44	8,242.46	66.98	124.058	
3,300.00	3,187.80	3,163.80	3,163.80	15.23	54.30	106.35	-6,842.76	4,444.31	8,322.64	8,253.36	69.28	120.138	
3,400.00	3,278.07	3,254.07	3,254.07	15.99	55.88	106.61	-6,842.76	4,444.31	8,336.04	8,264.46	71.58	116.463	
3,500.00	3,368.34	3,344.34	3,344.34	16.76	57.45	106.87	-6,842.76	4,444.31	8,349.63	8,275.75	73.88	113.013	
3,600.00	3,458.61	3,434.61	3,434.61	17.54	59.03	107.12	-6,842.76	4,444.31	8,363.43	8,287.24	76.19	109.768	
3,700.00	3,548.89	3,524.89	3,524.89	18.32	60.60	107.38	-6,842.76	4,444.31	8,377.42	8,298.92	78.50	106.713	
3,800.00	3,639.16	3,615.16	3,615.16	19.10	62.18	107.64	-6,842.76	4,444.31	8,391.62	8,310.80	80.82	103.832	
3,900.00	3,729.43	3,705.43	3,705.43	19.89	63.76	107.89	-6,842.76	4,444.31	8,406.01	8,322.87	83.14	101.111	
4,000.00	3,819.70	3,804.30	3,795.70	20.69	65.48	108.14	-6,842.76	4,444.31	8,420.59	8,334.98	85.60	98.366	
4,100.00	3,909.98	3,885.98	3,885.98	21.48	66.91	108.40	-6,842.76	4,444.31	8,435.37	8,347.59	87.77	96.103	
4,200.00	4,000.25	3,976.25	3,976.25	22.28	68.48	108.65	-6,842.76	4,444.31	8,450.34	8,360.24	90.09	93.795	
4,300.00	4,090.52	4,066.52	4,066.52	23.08	70.06	108.90	-6,842.76	4,444.31	8,465.50	8,373.09	92.41	91.604	
4,400.00	4,180.79	4,156.79	4,156.79	23.88	71.63	109.15	-6,842.76	4,444.31	8,480.86	8,386.12	94.73	89.522	
4,500.00	4,271.06	4,247.06	4,247.06	24.69	73.21	109.40	-6,842.76	4,444.31	8,496.40	8,399.35	97.05	87.542	
4,600.00	4,361.34	4,337.34	4,337.34	25.49	74.78	109.65	-6,842.76	4,444.31	8,512.13	8,412.76	99.37	85.657	
4,700.00	4,451.61	4,427.61	4,427.61	26.30	76.36	109.90	-6,842.76	4,444.31	8,528.06	8,426.36	101.69	83.860	
4,800.00	4,541.88	4,517.88	4,517.88	27.11	77.94	110.15	-6,842.76	4,444.31	8,544.16	8,440.15	104.01	82.145	
4,900.00	4,632.15	4,608.15	4,608.15	27.92	79.51	110.40	-6,842.76	4,444.31	8,560.46	8,454.13	106.33	80.508	
5,000.00	4,722.43	4,701.57	4,698.43	28.74	81.14	110.65	-6,842.76	4,444.31	8,576.94	8,468.24	108.70	78.903	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,788.70	4,788.70	29.55	82.66	110.89	-6,842.76	4,444.31	8,593.60	8,482.64	110.96	77.446	
5,200.00	4,902.97	4,878.97	4,878.97	30.37	84.24	111.14	-6,842.76	4,444.31	8,610.45	8,497.17	113.28	76.012	
5,300.00	4,993.24	4,969.24	4,969.24	31.18	85.81	111.38	-6,842.76	4,444.31	8,627.48	8,511.89	115.59	74.638	
5,400.00	5,083.51	5,050.00	5,050.00	32.00	87.22	111.60	-6,842.76	4,444.31	8,644.69	8,526.95	117.73	73.426	
5,500.00	5,173.79	5,050.00	5,050.00	32.82	87.22	111.60	-6,842.76	4,444.31	8,662.65	8,544.20	118.44	73.137	
5,600.00	5,264.06	5,050.00	5,050.00	33.63	87.22	111.60	-6,842.76	4,444.31	8,681.72	8,562.58	119.14	72.871	
5,700.00	5,354.33	5,050.00	5,050.00	34.45	87.22	111.60	-6,842.76	4,444.31	8,701.90	8,582.08	119.82	72.626	
5,800.00	5,444.60	5,050.00	5,050.00	35.27	87.22	111.60	-6,842.76	4,444.31	8,723.18	8,602.69	120.48	72.403	
5,900.00	5,534.88	5,050.00	5,050.00	36.09	87.22	111.60	-6,842.76	4,444.31	8,745.55	8,624.42	121.13	72.200	
6,000.00	5,625.15	5,050.00	5,050.00	36.91	87.22	111.60	-6,842.76	4,444.31	8,769.00	8,647.24	121.76	72.016	
6,100.00	5,715.42	5,050.00	5,050.00	37.74	87.22	111.60	-6,842.76	4,444.31	8,793.53	8,671.15	122.38	71.853	
6,200.00	5,805.69	5,050.00	5,050.00	38.56	87.22	111.60	-6,842.76	4,444.31	8,819.12	8,696.14	122.99	71.709	
6,300.00	5,895.96	5,050.00	5,050.00	39.38	87.22	111.60	-6,842.76	4,444.31	8,845.78	8,722.20	123.57	71.583	
6,400.00	5,986.24	5,050.00	5,050.00	40.20	87.22	111.60	-6,842.76	4,444.31	8,873.47	8,749.33	124.15	71.476	
6,500.00	6,076.51	5,050.00	5,050.00	41.03	87.22	111.60	-6,842.76	4,444.31	8,902.21	8,777.51	124.70	71.387	
6,600.00	6,166.78	5,050.00	5,050.00	41.85	87.22	111.60	-6,842.76	4,444.31	8,931.97	8,806.73	125.25	71.315	
6,700.00	6,257.05	5,050.00	5,050.00	42.67	87.22	111.60	-6,842.76	4,444.31	8,962.75	8,836.98	125.77	71.261	
6,800.00	6,347.33	5,050.00	5,050.00	43.50	87.22	111.60	-6,842.76	4,444.31	8,994.54	8,868.25	126.29	71.223	
6,900.00	6,437.60	5,050.00	5,050.00	44.32	87.22	111.60	-6,842.76	4,444.31	9,027.32	8,900.53	126.78	71.202	
7,000.00	6,527.87	5,050.00	5,050.00	45.15	87.22	111.60	-6,842.76	4,444.31	9,061.09	8,933.82	127.27	71.197	
7,100.00	6,618.14	5,050.00	5,050.00	45.98	87.22	111.60	-6,842.76	4,444.31	9,095.83	8,968.09	127.74	71.207	
7,200.00	6,708.41	5,050.00	5,050.00	46.80	87.22	111.60	-6,842.76	4,444.31	9,131.53	9,003.34	128.19	71.233	
7,300.00	6,798.69	5,050.00	5,050.00	47.63	87.22	111.60	-6,842.76	4,444.31	9,168.19	9,039.55	128.63	71.274	
7,400.00	6,888.96	5,050.00	5,050.00	48.45	87.22	111.60	-6,842.76	4,444.31	9,205.78	9,076.72	129.06	71.329	
7,500.00	6,979.23	5,050.00	5,050.00	49.28	87.22	111.60	-6,842.76	4,444.31	9,244.31	9,114.83	129.47	71.399	
7,600.00	7,069.50	5,050.00	5,050.00	50.11	87.22	111.60	-6,842.76	4,444.31	9,283.75	9,153.88	129.87	71.482	
7,692.09	7,152.63	5,050.00	5,050.00	50.87	87.22	111.60	-6,842.76	4,444.31	9,320.87	9,190.64	130.23	71.571	
7,700.00	7,159.79	5,050.00	5,050.00	50.93	87.22	110.52	-6,842.76	4,444.31	9,324.05	9,193.79	130.26	71.580	
7,750.00	7,205.70	5,050.00	5,050.00	51.32	87.22	102.19	-6,842.76	4,444.31	9,342.11	9,211.67	130.44	71.622	
7,800.00	7,252.52	5,050.00	5,050.00	51.66	87.22	91.00	-6,842.76	4,444.31	9,356.58	9,225.99	130.59	71.650	
7,850.00	7,299.89	5,050.00	5,050.00	51.96	87.22	77.16	-6,842.76	4,444.31	9,367.37	9,236.66	130.71	71.664	
7,900.00	7,347.44	5,050.00	5,050.00	52.20	87.22	62.05	-6,842.76	4,444.31	9,374.41	9,243.61	130.80	71.668	
7,950.00	7,394.83	5,050.00	5,050.00	52.39	87.22	47.82	-6,842.76	4,444.31	9,377.65	9,246.79	130.86	71.661	
8,000.00	7,441.68	5,050.00	5,050.00	52.53	87.22	35.92	-6,842.76	4,444.31	9,377.08	9,246.19	130.89	71.643	
8,050.00	7,487.65	5,050.00	5,050.00	52.62	87.22	26.58	-6,842.76	4,444.31	9,372.70	9,241.82	130.88	71.614	
8,100.00	7,532.37	5,050.00	5,050.00	52.67	87.22	19.35	-6,842.76	4,444.31	9,364.53	9,233.69	130.84	71.573	
8,150.00	7,575.52	5,050.00	5,050.00	52.67	87.22	13.68	-6,842.76	4,444.31	9,352.62	9,221.85	130.77	71.519	
8,200.00	7,616.76	5,050.00	5,050.00	52.63	87.22	9.08	-6,842.76	4,444.31	9,337.07	9,206.39	130.68	71.451	
8,250.00	7,655.77	5,050.00	5,050.00	52.55	87.22	5.21	-6,842.76	4,444.31	9,317.95	9,187.39	130.56	71.368	
8,300.00	7,692.27	5,050.00	5,050.00	52.44	87.22	1.79	-6,842.76	4,444.31	9,295.41	9,164.99	130.42	71.272	
8,350.00	7,725.97	5,050.00	5,050.00	52.29	87.22	-1.37	-6,842.76	4,444.31	9,269.58	9,139.32	130.26	71.160	
8,400.00	7,756.62	5,050.00	5,050.00	52.12	87.22	-4.43	-6,842.76	4,444.31	9,240.64	9,110.56	130.09	71.034	
8,450.00	7,783.98	5,050.00	5,050.00	51.92	87.22	-7.56	-6,842.76	4,444.31	9,208.78	9,078.88	129.90	70.892	
8,500.00	7,807.85	5,050.00	5,050.00	51.70	87.22	-10.89	-6,842.76	4,444.31	9,174.21	9,044.51	129.70	70.736	
8,550.00	7,828.05	5,050.00	5,050.00	51.45	87.22	-14.59	-6,842.76	4,444.31	9,137.16	9,007.67	129.49	70.564	
8,600.00	7,844.41	5,050.00	5,050.00	51.20	87.22	-18.86	-6,842.76	4,444.31	9,097.89	8,968.62	129.27	70.377	
8,650.00	7,856.82	5,050.00	5,050.00	50.93	87.22	-23.95	-6,842.76	4,444.31	9,056.68	8,927.62	129.06	70.176	
8,700.00	7,865.18	5,050.00	5,050.00	50.65	87.22	-30.14	-6,842.76	4,444.31	9,013.80	8,884.96	128.84	69.960	
8,750.00	7,869.43	5,050.00	5,050.00	50.36	87.22	-37.74	-6,842.76	4,444.31	8,969.57	8,840.94	128.63	69.731	
8,776.25	7,870.00	5,050.00	5,050.00	50.21	87.22	-42.38	-6,842.76	4,444.31	8,945.91	8,817.39	128.52	69.606	
8,800.00	7,870.00	5,050.00	5,050.00	50.08	87.22	-42.38	-6,842.76	4,444.31	8,924.40	8,795.97	128.43	69.491	
8,900.00	7,870.00	5,050.00	5,050.00	49.53	87.22	-42.38	-6,842.76	4,444.31	8,833.94	8,705.93	128.01	69.010	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,050.00	5,050.00	49.01	87.22	-42.38	-6,842.76	4,444.31	8,743.69	8,616.10	127.59	68.528	
9,100.00	7,870.00	5,050.00	5,050.00	48.52	87.22	-42.38	-6,842.76	4,444.31	8,653.66	8,526.49	127.17	68.047	
9,200.00	7,870.00	5,050.00	5,050.00	48.06	87.22	-42.38	-6,842.76	4,444.31	8,563.84	8,437.09	126.75	67.565	
9,300.00	7,870.00	5,050.00	5,050.00	47.63	87.22	-42.38	-6,842.76	4,444.31	8,474.26	8,347.93	126.33	67.083	
9,400.00	7,870.00	5,050.00	5,050.00	47.22	87.22	-42.38	-6,842.76	4,444.31	8,384.91	8,259.01	125.90	66.600	
9,500.00	7,870.00	5,050.00	5,050.00	46.83	87.22	-42.38	-6,842.76	4,444.31	8,295.80	8,170.33	125.47	66.116	
9,600.00	7,870.00	5,050.00	5,050.00	46.48	87.22	-42.38	-6,842.76	4,444.31	8,206.94	8,081.90	125.05	65.631	
9,700.00	7,870.00	5,050.00	5,050.00	46.14	87.22	-42.38	-6,842.76	4,444.31	8,118.35	7,993.73	124.62	65.145	
9,800.00	7,870.00	5,050.00	5,050.00	45.83	87.22	-42.38	-6,842.76	4,444.31	8,030.02	7,905.83	124.19	64.657	
9,900.00	7,870.00	5,050.00	5,050.00	45.54	87.22	-42.38	-6,842.76	4,444.31	7,941.97	7,818.20	123.77	64.168	
10,000.00	7,870.00	5,050.00	5,050.00	45.27	87.22	-42.38	-6,842.76	4,444.31	7,854.20	7,730.85	123.35	63.676	
10,100.00	7,870.00	5,050.00	5,050.00	45.03	87.22	-42.38	-6,842.76	4,444.31	7,766.73	7,643.80	122.93	63.182	
10,200.00	7,870.00	5,050.00	5,050.00	44.82	87.22	-42.38	-6,842.76	4,444.31	7,679.57	7,557.06	122.51	62.685	
10,300.00	7,870.00	5,050.00	5,050.00	44.66	87.22	-42.38	-6,842.76	4,444.31	7,592.72	7,470.62	122.10	62.185	
10,400.00	7,870.00	5,050.00	5,050.00	44.56	87.22	-42.38	-6,842.76	4,444.31	7,506.20	7,384.50	121.69	61.681	
10,500.00	7,870.00	5,050.00	5,050.00	44.58	87.22	-42.38	-6,842.76	4,444.31	7,420.02	7,298.72	121.30	61.173	
10,600.00	7,870.00	5,050.00	5,050.00	44.82	87.22	-42.38	-6,842.76	4,444.31	7,334.18	7,213.28	120.90	60.661	
10,700.00	7,870.00	5,050.00	5,050.00	45.36	87.22	-42.38	-6,842.76	4,444.31	7,248.72	7,128.19	120.52	60.144	
10,800.00	7,870.00	5,050.00	5,050.00	46.15	87.22	-42.38	-6,842.76	4,444.31	7,163.62	7,043.47	120.15	59.621	
10,900.00	7,870.00	5,050.00	5,050.00	47.09	87.22	-42.38	-6,842.76	4,444.31	7,078.92	6,959.13	119.80	59.092	
11,000.00	7,870.00	5,050.00	5,050.00	48.13	87.22	-42.38	-6,842.76	4,444.31	6,994.63	6,875.17	119.45	58.556	
11,100.00	7,870.00	5,050.00	5,050.00	49.22	87.22	-42.38	-6,842.76	4,444.31	6,910.75	6,791.62	119.12	58.013	
11,200.00	7,870.00	5,050.00	5,050.00	50.37	87.22	-42.38	-6,842.76	4,444.31	6,827.30	6,708.49	118.81	57.462	
11,300.00	7,870.00	5,050.00	5,050.00	51.55	87.22	-42.38	-6,842.76	4,444.31	6,744.31	6,625.78	118.52	56.902	
11,400.00	7,870.00	5,050.00	5,050.00	52.76	87.22	-42.38	-6,842.76	4,444.31	6,661.78	6,543.52	118.26	56.333	
11,500.00	7,870.00	5,050.00	5,050.00	54.00	87.22	-42.38	-6,842.76	4,444.31	6,579.74	6,461.73	118.01	55.755	
11,600.00	7,870.00	5,050.00	5,050.00	55.27	87.22	-42.38	-6,842.76	4,444.31	6,498.20	6,380.40	117.79	55.166	
11,700.00	7,870.00	5,050.00	5,050.00	56.56	87.22	-42.38	-6,842.76	4,444.31	6,417.18	6,299.58	117.60	54.566	
11,800.00	7,870.00	5,050.00	5,050.00	57.88	87.22	-42.38	-6,842.76	4,444.31	6,336.71	6,219.26	117.45	53.955	
11,900.00	7,870.00	5,050.00	5,050.00	59.21	87.22	-42.38	-6,842.76	4,444.31	6,256.79	6,139.47	117.32	53.331	
12,000.00	7,870.00	5,050.00	5,050.00	60.57	87.22	-42.38	-6,842.76	4,444.31	6,177.47	6,060.24	117.23	52.695	
12,100.00	7,870.00	5,050.00	5,050.00	61.94	87.22	-42.38	-6,842.76	4,444.31	6,098.75	5,981.57	117.18	52.047	
12,200.00	7,870.00	5,050.00	5,050.00	63.33	87.22	-42.38	-6,842.76	4,444.31	6,020.66	5,903.49	117.17	51.385	
12,300.00	7,870.00	5,050.00	5,050.00	64.74	87.22	-42.38	-6,842.76	4,444.31	5,943.23	5,826.03	117.20	50.710	
12,400.00	7,870.00	5,050.00	5,050.00	66.16	87.22	-42.38	-6,842.76	4,444.31	5,866.48	5,749.21	117.28	50.023	
12,500.00	7,870.00	5,050.00	5,050.00	67.59	87.22	-42.38	-6,842.76	4,444.31	5,790.44	5,673.04	117.40	49.322	
12,600.00	7,870.00	5,050.00	5,050.00	69.04	87.22	-42.38	-6,842.76	4,444.31	5,715.14	5,597.57	117.58	48.608	
12,700.00	7,870.00	5,050.00	5,050.00	70.51	87.22	-42.38	-6,842.76	4,444.31	5,640.61	5,522.81	117.80	47.883	
12,800.00	7,870.00	5,050.00	5,050.00	71.98	87.22	-42.38	-6,842.76	4,444.31	5,566.88	5,448.80	118.08	47.145	
12,900.00	7,870.00	5,050.00	5,050.00	73.47	87.22	-42.38	-6,842.76	4,444.31	5,493.98	5,375.56	118.41	46.397	
13,000.00	7,870.00	5,050.00	5,050.00	74.96	87.22	-42.38	-6,842.76	4,444.31	5,421.94	5,303.13	118.80	45.638	
13,100.00	7,870.00	5,050.00	5,050.00	76.47	87.22	-42.38	-6,842.76	4,444.31	5,350.80	5,231.55	119.25	44.870	
13,200.00	7,870.00	5,050.00	5,050.00	77.99	87.22	-42.38	-6,842.76	4,444.31	5,280.59	5,160.84	119.76	44.095	
13,300.00	7,870.00	5,050.00	5,050.00	79.51	87.22	-42.38	-6,842.76	4,444.31	5,211.36	5,091.04	120.32	43.312	
13,400.00	7,870.00	5,050.00	5,050.00	81.05	87.22	-42.38	-6,842.76	4,444.31	5,143.14	5,022.20	120.95	42.524	
13,500.00	7,870.00	5,050.00	5,050.00	82.59	87.22	-42.38	-6,842.76	4,444.31	5,075.98	4,954.35	121.63	41.732	
13,600.00	7,870.00	5,050.00	5,050.00	84.14	87.22	-42.38	-6,842.76	4,444.31	5,009.91	4,887.53	122.38	40.938	
13,700.00	7,870.00	5,050.00	5,050.00	85.70	87.22	-42.38	-6,842.76	4,444.31	4,944.98	4,821.79	123.19	40.142	
13,800.00	7,870.00	5,050.00	5,050.00	87.26	87.22	-42.38	-6,842.76	4,444.31	4,881.24	4,757.18	124.05	39.348	
13,900.00	7,870.00	5,050.00	5,050.00	88.83	87.22	-42.38	-6,842.76	4,444.31	4,818.72	4,693.74	124.98	38.555	
14,000.00	7,870.00	5,050.00	5,050.00	90.41	87.22	-42.38	-6,842.76	4,444.31	4,757.49	4,631.52	125.97	37.767	
14,100.00	7,870.00	5,050.00	5,050.00	92.00	87.22	-42.38	-6,842.76	4,444.31	4,697.59	4,570.57	127.02	36.984	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,050.00	5,050.00	93.59	87.22	-42.38	-6,842.76	4,444.31	4,639.07	4,510.95	128.12	36.208	
14,300.00	7,870.00	5,050.00	5,050.00	95.18	87.22	-42.38	-6,842.76	4,444.31	4,581.99	4,452.70	129.28	35.441	
14,400.00	7,870.00	5,050.00	5,050.00	96.79	87.22	-42.38	-6,842.76	4,444.31	4,526.39	4,395.89	130.50	34.684	
14,500.00	7,870.00	5,050.00	5,050.00	98.39	87.22	-42.38	-6,842.76	4,444.31	4,472.35	4,340.57	131.78	33.939	
14,600.00	7,870.00	5,050.00	5,050.00	100.00	87.22	-42.38	-6,842.76	4,444.31	4,419.90	4,286.79	133.11	33.206	
14,700.00	7,870.00	5,050.00	5,050.00	101.62	87.22	-42.38	-6,842.76	4,444.31	4,369.11	4,234.63	134.49	32.488	
14,800.00	7,870.00	5,050.00	5,050.00	103.24	87.22	-42.38	-6,842.76	4,444.31	4,320.04	4,184.13	135.92	31.784	
14,900.00	7,870.00	5,050.00	5,050.00	104.87	87.22	-42.38	-6,842.76	4,444.31	4,272.75	4,135.35	137.40	31.098	
15,000.00	7,870.00	5,050.00	5,050.00	106.50	87.22	-42.38	-6,842.76	4,444.31	4,227.30	4,088.37	138.92	30.429	
15,100.00	7,870.00	5,050.00	5,050.00	108.13	87.22	-42.38	-6,842.76	4,444.31	4,183.74	4,043.24	140.50	29.778	
15,200.00	7,870.00	5,050.00	5,050.00	109.77	87.22	-42.38	-6,842.76	4,444.31	4,142.14	4,000.02	142.11	29.147	
15,300.00	7,870.00	5,050.00	5,050.00	111.41	87.22	-42.38	-6,842.76	4,444.31	4,102.55	3,958.78	143.77	28.536	
15,400.00	7,870.00	5,050.00	5,050.00	113.05	87.22	-42.38	-6,842.76	4,444.31	4,065.04	3,919.58	145.46	27.945	
15,500.00	7,870.00	5,050.00	5,050.00	114.70	87.22	-42.38	-6,842.76	4,444.31	4,029.66	3,882.47	147.20	27.376	
15,600.00	7,870.00	5,050.00	5,050.00	116.35	87.22	-42.38	-6,842.76	4,444.31	3,996.48	3,847.52	148.96	26.829	
15,700.00	7,870.00	5,050.00	5,050.00	118.00	87.22	-42.38	-6,842.76	4,444.31	3,965.53	3,814.78	150.76	26.304	
15,800.00	7,870.00	5,050.00	5,050.00	119.66	87.22	-42.38	-6,842.76	4,444.31	3,936.89	3,784.31	152.58	25.802	
15,900.00	7,870.00	5,050.00	5,050.00	121.32	87.22	-42.38	-6,842.76	4,444.31	3,910.59	3,756.16	154.43	25.323	
16,000.00	7,870.00	5,050.00	5,050.00	122.98	87.22	-42.38	-6,842.76	4,444.31	3,886.69	3,730.39	156.30	24.867	
16,100.00	7,870.00	5,050.00	5,050.00	124.65	87.22	-42.38	-6,842.76	4,444.31	3,865.23	3,707.04	158.18	24.435	
16,200.00	7,870.00	5,050.00	5,050.00	126.32	87.22	-42.38	-6,842.76	4,444.31	3,846.25	3,686.16	160.09	24.026	
16,300.00	7,870.00	5,050.00	5,050.00	127.99	87.22	-42.38	-6,842.76	4,444.31	3,829.78	3,667.78	162.00	23.641	
16,400.00	7,870.00	5,050.00	5,050.00	129.66	87.22	-42.38	-6,842.76	4,444.31	3,815.87	3,651.95	163.92	23.279	
16,500.00	7,870.00	5,050.00	5,050.00	131.33	87.22	-42.38	-6,842.76	4,444.31	3,804.54	3,638.69	165.84	22.940	
16,600.00	7,870.00	5,050.00	5,050.00	133.01	87.22	-42.38	-6,842.76	4,444.31	3,795.80	3,628.04	167.77	22.625	
16,700.00	7,870.00	5,050.00	5,050.00	134.69	87.22	-42.38	-6,842.76	4,444.31	3,789.69	3,620.01	169.68	22.334	
16,800.00	7,870.00	5,050.00	5,050.00	136.37	87.22	-42.38	-6,842.76	4,444.31	3,786.21	3,614.62	171.59	22.065	
16,881.84	7,870.00	5,050.00	5,050.00	137.75	87.22	-42.38	-6,842.76	4,444.31	3,785.33	3,612.18	173.14	21.863	CC
16,900.00	7,870.00	5,050.00	5,050.00	138.06	87.22	-42.38	-6,842.76	4,444.31	3,785.37	3,611.89	173.48	21.820	
17,000.00	7,870.00	5,050.00	5,050.00	139.74	87.22	-42.38	-6,842.76	4,444.31	3,787.17	3,611.81	175.36	21.597	ES
17,100.00	7,870.00	5,050.00	5,050.00	141.43	87.22	-42.38	-6,842.76	4,444.31	3,791.61	3,614.40	177.21	21.396	
17,200.00	7,870.00	5,050.00	5,050.00	143.12	87.22	-42.38	-6,842.76	4,444.31	3,798.67	3,619.64	179.03	21.218	
17,300.00	7,870.00	5,050.00	5,050.00	144.81	87.22	-42.38	-6,842.76	4,444.31	3,808.35	3,627.53	180.82	21.061	
17,400.00	7,870.00	5,050.00	5,050.00	146.50	87.22	-42.38	-6,842.76	4,444.31	3,820.63	3,638.05	182.57	20.926	
17,500.00	7,870.00	5,050.00	5,050.00	148.19	87.22	-42.38	-6,842.76	4,444.31	3,835.47	3,651.18	184.29	20.813	
17,600.00	7,870.00	5,050.00	5,050.00	149.89	87.22	-42.38	-6,842.76	4,444.31	3,852.85	3,666.90	185.95	20.719	
17,700.00	7,870.00	5,050.00	5,050.00	151.59	87.22	-42.38	-6,842.76	4,444.31	3,872.73	3,685.16	187.57	20.647	
17,800.00	7,870.00	5,050.00	5,050.00	153.29	87.22	-42.38	-6,842.76	4,444.31	3,895.09	3,705.95	189.14	20.594	
17,900.00	7,870.00	5,050.00	5,050.00	154.99	87.22	-42.38	-6,842.76	4,444.31	3,919.86	3,729.21	190.65	20.561	
18,000.00	7,870.00	5,050.00	5,050.00	156.69	87.22	-42.38	-6,842.76	4,444.31	3,947.02	3,754.92	192.10	20.546	SF
18,100.00	7,870.00	5,050.00	5,050.00	158.39	87.22	-42.38	-6,842.76	4,444.31	3,976.51	3,783.01	193.50	20.550	
18,200.00	7,870.00	5,050.00	5,050.00	160.09	87.22	-42.38	-6,842.76	4,444.31	4,008.27	3,813.44	194.83	20.573	
18,300.00	7,870.00	5,050.00	5,050.00	161.80	87.22	-42.38	-6,842.76	4,444.31	4,042.26	3,846.15	196.11	20.613	
18,400.00	7,870.00	5,050.00	5,050.00	163.51	87.22	-42.38	-6,842.76	4,444.31	4,078.42	3,881.10	197.31	20.670	
18,455.45	7,870.00	5,050.00	5,050.00	164.45	87.22	-42.38	-6,842.76	4,444.31	4,099.38	3,901.42	197.96	20.708	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	151.56	-8,182.97	4,432.22	9,306.27				
100.00	100.00	67.00	67.00	0.13	0.56	151.56	-8,182.97	4,432.22	9,306.22	9,305.53	0.69	N/A	
200.00	200.00	167.00	167.00	0.49	2.00	151.56	-8,182.97	4,432.22	9,306.22	9,303.72	2.49	3,735.484	
300.00	300.00	267.00	267.00	0.85	3.74	151.56	-8,182.97	4,432.22	9,306.22	9,301.62	4.60	2,025.247	
400.00	400.00	367.00	367.00	1.21	5.49	151.56	-8,182.97	4,432.22	9,306.22	9,299.52	6.70	1,389.215	
500.00	500.00	467.00	467.00	1.57	7.23	151.56	-8,182.97	4,432.22	9,306.22	9,297.41	8.80	1,057.200	
600.00	600.00	567.00	567.00	1.93	8.98	151.56	-8,182.97	4,432.22	9,306.22	9,295.31	10.91	853.272	
700.00	700.00	667.00	667.00	2.29	10.73	151.56	-8,182.97	4,432.22	9,306.22	9,293.21	13.01	715.296	
800.00	800.00	767.00	767.00	2.64	12.47	151.56	-8,182.97	4,432.22	9,306.22	9,291.10	15.11	615.730	
900.00	900.00	867.00	867.00	3.00	14.22	151.56	-8,182.97	4,432.22	9,306.22	9,289.00	17.22	540.496	
1,000.00	1,000.00	967.00	967.00	3.36	15.96	151.56	-8,182.97	4,432.22	9,306.22	9,286.89	19.32	481.646	
1,100.00	1,100.00	1,067.00	1,067.00	3.72	17.71	151.56	-8,182.97	4,432.22	9,306.22	9,284.79	21.43	434.352	
1,200.00	1,200.00	1,167.00	1,167.00	4.08	19.45	151.56	-8,182.97	4,432.22	9,306.22	9,282.69	23.53	395.516	
1,300.00	1,300.00	1,267.00	1,267.00	4.44	21.20	151.56	-8,182.97	4,432.22	9,306.22	9,280.58	25.63	363.054	
1,400.00	1,399.98	1,366.98	1,366.98	4.79	22.94	108.61	-8,182.97	4,432.22	9,306.77	9,279.04	27.73	335.570	
1,500.00	1,499.84	1,466.84	1,466.84	5.15	24.68	108.61	-8,182.97	4,432.22	9,308.45	9,278.61	29.83	312.027	
1,600.00	1,599.45	1,566.45	1,566.45	5.51	26.42	108.61	-8,182.97	4,432.22	9,311.24	9,279.31	31.93	291.622	
1,700.00	1,698.70	1,665.70	1,665.70	5.87	28.16	108.61	-8,182.97	4,432.22	9,315.15	9,281.13	34.03	273.768	
1,800.00	1,797.47	1,764.47	1,764.47	6.24	29.88	108.60	-8,182.97	4,432.22	9,320.20	9,284.08	36.12	258.008	
1,900.00	1,895.62	1,862.62	1,862.62	6.63	31.59	108.59	-8,182.97	4,432.22	9,326.39	9,288.16	38.22	243.988	
2,000.00	1,993.06	1,960.06	1,960.06	7.04	33.29	108.58	-8,182.97	4,432.22	9,333.73	9,293.40	40.33	231.424	
2,100.00	2,089.64	2,056.64	2,056.64	7.48	34.98	108.57	-8,182.97	4,432.22	9,342.23	9,299.79	42.45	220.092	
2,200.00	2,185.27	2,152.27	2,152.27	7.94	36.65	108.54	-8,182.97	4,432.22	9,351.92	9,307.34	44.57	209.813	
2,300.00	2,279.82	2,246.82	2,246.82	8.45	38.30	108.52	-8,182.97	4,432.22	9,362.80	9,316.09	46.71	200.438	
2,400.00	2,373.17	2,340.17	2,340.17	8.99	39.93	108.48	-8,182.97	4,432.22	9,374.89	9,326.02	48.87	191.850	
2,500.00	2,465.21	2,432.21	2,432.21	9.58	41.53	108.44	-8,182.97	4,432.22	9,388.21	9,337.17	51.04	183.950	
2,574.08	2,532.50	2,500.50	2,499.50	10.04	42.73	108.40	-8,182.97	4,432.22	9,398.88	9,346.21	52.67	178.435	
2,600.00	2,555.89	2,522.89	2,522.89	10.21	43.12	108.46	-8,182.97	4,432.22	9,402.74	9,349.52	53.23	176.659	
2,700.00	2,646.16	2,613.16	2,613.16	10.88	44.69	108.68	-8,182.97	4,432.22	9,417.75	9,362.31	55.43	169.888	
2,800.00	2,736.44	2,703.44	2,703.44	11.57	46.27	108.91	-8,182.97	4,432.22	9,432.93	9,375.26	57.66	163.587	
2,900.00	2,826.71	2,806.29	2,793.71	12.27	48.06	109.13	-8,182.97	4,432.22	9,448.27	9,388.15	60.13	157.141	
3,000.00	2,916.98	2,883.98	2,883.98	13.00	49.42	109.36	-8,182.97	4,432.22	9,463.79	9,401.63	62.16	152.243	
3,100.00	3,007.25	2,974.25	2,974.25	13.73	50.99	109.58	-8,182.97	4,432.22	9,479.48	9,415.05	64.43	147.132	
3,200.00	3,097.52	3,064.52	3,064.52	14.48	52.57	109.81	-8,182.97	4,432.22	9,495.34	9,428.64	66.70	142.353	
3,300.00	3,187.80	3,154.80	3,154.80	15.23	54.15	110.03	-8,182.97	4,432.22	9,511.37	9,442.38	68.98	137.878	
3,400.00	3,278.07	3,245.07	3,245.07	15.99	55.72	110.25	-8,182.97	4,432.22	9,527.56	9,456.29	71.27	133.681	
3,500.00	3,368.34	3,335.34	3,335.34	16.76	57.30	110.47	-8,182.97	4,432.22	9,543.92	9,470.36	73.56	129.739	
3,600.00	3,458.61	3,425.61	3,425.61	17.54	58.87	110.69	-8,182.97	4,432.22	9,560.45	9,484.59	75.86	126.031	
3,700.00	3,548.89	3,515.89	3,515.89	18.32	60.45	110.92	-8,182.97	4,432.22	9,577.14	9,498.98	78.16	122.538	
3,800.00	3,639.16	3,606.16	3,606.16	19.10	62.02	111.14	-8,182.97	4,432.22	9,593.99	9,513.53	80.46	119.243	
3,900.00	3,729.43	3,703.57	3,696.43	19.89	63.72	111.35	-8,182.97	4,432.22	9,611.01	9,528.12	82.88	115.956	
4,000.00	3,819.70	3,786.70	3,786.70	20.69	65.17	111.57	-8,182.97	4,432.22	9,628.19	9,543.12	85.06	113.187	
4,100.00	3,909.98	3,876.98	3,876.98	21.48	66.75	111.79	-8,182.97	4,432.22	9,645.53	9,558.16	87.37	110.399	
4,200.00	4,000.25	3,967.25	3,967.25	22.28	68.33	112.01	-8,182.97	4,432.22	9,663.03	9,573.35	89.68	107.755	
4,300.00	4,090.52	4,057.52	4,057.52	23.08	69.90	112.22	-8,182.97	4,432.22	9,680.69	9,588.71	91.98	105.245	
4,400.00	4,180.79	4,147.79	4,147.79	23.88	71.48	112.44	-8,182.97	4,432.22	9,698.51	9,604.22	94.29	102.860	
4,500.00	4,271.06	4,238.06	4,238.06	24.69	73.05	112.66	-8,182.97	4,432.22	9,716.49	9,619.89	96.60	100.590	
4,600.00	4,361.34	4,328.34	4,328.34	25.49	74.63	112.87	-8,182.97	4,432.22	9,734.62	9,635.72	98.90	98.427	
4,700.00	4,451.61	4,418.61	4,418.61	26.30	76.20	113.08	-8,182.97	4,432.22	9,752.91	9,651.71	101.21	96.366	
4,800.00	4,541.88	4,508.88	4,508.88	27.11	77.78	113.30	-8,182.97	4,432.22	9,771.36	9,667.85	103.51	94.398	
4,900.00	4,632.15	4,600.85	4,599.15	27.92	79.38	113.51	-8,182.97	4,432.22	9,789.96	9,684.11	105.85	92.492	
5,000.00	4,722.43	4,689.43	4,689.43	28.74	80.93	113.72	-8,182.97	4,432.22	9,808.71	9,700.59	108.12	90.720	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,779.70	4,779.70	29.55	82.51	113.93	-8,182.97	4,432.22	9,827.62	9,717.19	110.42	88.999	
5,200.00	4,902.97	4,869.97	4,869.97	30.37	84.08	114.14	-8,182.97	4,432.22	9,846.67	9,733.95	112.73	87.351	
5,300.00	4,993.24	4,960.24	4,960.24	31.18	85.66	114.35	-8,182.97	4,432.22	9,865.88	9,750.86	115.03	85.771	
5,400.00	5,083.51	5,050.51	5,050.51	32.00	87.23	114.56	-8,182.97	4,432.22	9,885.24	9,767.91	117.33	84.255	
5,500.00	5,173.79	5,048.00	5,048.00	32.82	87.19	114.56	-8,182.97	4,432.22	9,905.18	9,787.20	117.98	83.955	
5,600.00	5,264.06	5,048.00	5,048.00	33.63	87.19	114.56	-8,182.97	4,432.22	9,926.09	9,807.42	118.67	83.644	
5,700.00	5,354.33	5,048.00	5,048.00	34.45	87.19	114.56	-8,182.97	4,432.22	9,947.96	9,828.62	119.35	83.353	
5,800.00	5,444.60	5,048.00	5,048.00	35.27	87.19	114.56	-8,182.97	4,432.22	9,970.79	9,850.78	120.01	83.082	
5,900.00	5,534.88	5,048.00	5,048.00	36.09	87.19	114.56	-8,182.97	4,432.22	9,994.56	9,873.90	120.66	82.830	
9,000.00	7,870.00	5,048.00	5,048.00	49.01	87.19	-42.37	-8,182.97	4,432.22	9,964.85	9,836.04	128.81	77.363	
9,100.00	7,870.00	5,048.00	5,048.00	48.52	87.19	-42.37	-8,182.97	4,432.22	9,872.38	9,743.92	128.45	76.855	
9,200.00	7,870.00	5,048.00	5,048.00	48.06	87.19	-42.37	-8,182.97	4,432.22	9,780.05	9,651.95	128.10	76.347	
9,300.00	7,870.00	5,048.00	5,048.00	47.63	87.19	-42.37	-8,182.97	4,432.22	9,687.88	9,560.13	127.75	75.837	
9,400.00	7,870.00	5,048.00	5,048.00	47.22	87.19	-42.37	-8,182.97	4,432.22	9,595.86	9,468.47	127.39	75.327	
9,500.00	7,870.00	5,048.00	5,048.00	46.83	87.19	-42.37	-8,182.97	4,432.22	9,504.01	9,376.97	127.03	74.816	
9,600.00	7,870.00	5,048.00	5,048.00	46.48	87.19	-42.37	-8,182.97	4,432.22	9,412.32	9,285.64	126.67	74.304	
9,700.00	7,870.00	5,048.00	5,048.00	46.14	87.19	-42.37	-8,182.97	4,432.22	9,320.80	9,194.48	126.32	73.790	
9,800.00	7,870.00	5,048.00	5,048.00	45.83	87.19	-42.37	-8,182.97	4,432.22	9,229.46	9,103.50	125.96	73.275	
9,900.00	7,870.00	5,048.00	5,048.00	45.54	87.19	-42.37	-8,182.97	4,432.22	9,138.30	9,012.70	125.60	72.757	
10,000.00	7,870.00	5,048.00	5,048.00	45.27	87.19	-42.37	-8,182.97	4,432.22	9,047.32	8,922.08	125.24	72.238	
10,100.00	7,870.00	5,048.00	5,048.00	45.03	87.19	-42.37	-8,182.97	4,432.22	8,956.54	8,831.65	124.89	71.717	
10,200.00	7,870.00	5,048.00	5,048.00	44.82	87.19	-42.37	-8,182.97	4,432.22	8,865.96	8,741.42	124.53	71.194	
10,300.00	7,870.00	5,048.00	5,048.00	44.66	87.19	-42.37	-8,182.97	4,432.22	8,775.58	8,651.40	124.18	70.668	
10,400.00	7,870.00	5,048.00	5,048.00	44.56	87.19	-42.37	-8,182.97	4,432.22	8,685.41	8,561.58	123.83	70.138	
10,500.00	7,870.00	5,048.00	5,048.00	44.58	87.19	-42.37	-8,182.97	4,432.22	8,595.46	8,471.97	123.49	69.606	
10,600.00	7,870.00	5,048.00	5,048.00	44.82	87.19	-42.37	-8,182.97	4,432.22	8,505.74	8,382.59	123.15	69.070	
10,700.00	7,870.00	5,048.00	5,048.00	45.36	87.19	-42.37	-8,182.97	4,432.22	8,416.24	8,293.43	122.81	68.530	
10,800.00	7,870.00	5,048.00	5,048.00	46.15	87.19	-42.37	-8,182.97	4,432.22	8,326.99	8,204.50	122.48	67.986	
10,900.00	7,870.00	5,048.00	5,048.00	47.09	87.19	-42.37	-8,182.97	4,432.22	8,237.98	8,115.82	122.16	67.437	
11,000.00	7,870.00	5,048.00	5,048.00	48.13	87.19	-42.37	-8,182.97	4,432.22	8,149.22	8,027.38	121.84	66.883	
11,100.00	7,870.00	5,048.00	5,048.00	49.22	87.19	-42.37	-8,182.97	4,432.22	8,060.73	7,939.20	121.54	66.324	
11,200.00	7,870.00	5,048.00	5,048.00	50.37	87.19	-42.37	-8,182.97	4,432.22	7,972.52	7,851.28	121.24	65.759	
11,300.00	7,870.00	5,048.00	5,048.00	51.55	87.19	-42.37	-8,182.97	4,432.22	7,884.58	7,763.63	120.95	65.188	
11,400.00	7,870.00	5,048.00	5,048.00	52.76	87.19	-42.37	-8,182.97	4,432.22	7,796.93	7,676.26	120.68	64.610	
11,500.00	7,870.00	5,048.00	5,048.00	54.00	87.19	-42.37	-8,182.97	4,432.22	7,709.59	7,589.17	120.42	64.024	
11,600.00	7,870.00	5,048.00	5,048.00	55.27	87.19	-42.37	-8,182.97	4,432.22	7,622.55	7,502.38	120.17	63.431	
11,700.00	7,870.00	5,048.00	5,048.00	56.56	87.19	-42.37	-8,182.97	4,432.22	7,535.84	7,415.90	119.94	62.829	
11,800.00	7,870.00	5,048.00	5,048.00	57.88	87.19	-42.37	-8,182.97	4,432.22	7,449.46	7,329.73	119.73	62.219	
11,900.00	7,870.00	5,048.00	5,048.00	59.21	87.19	-42.37	-8,182.97	4,432.22	7,363.43	7,243.89	119.54	61.599	
12,000.00	7,870.00	5,048.00	5,048.00	60.57	87.19	-42.37	-8,182.97	4,432.22	7,277.75	7,158.38	119.37	60.970	
12,100.00	7,870.00	5,048.00	5,048.00	61.94	87.19	-42.37	-8,182.97	4,432.22	7,192.44	7,073.23	119.22	60.330	
12,200.00	7,870.00	5,048.00	5,048.00	63.33	87.19	-42.37	-8,182.97	4,432.22	7,107.52	6,988.42	119.09	59.679	
12,300.00	7,870.00	5,048.00	5,048.00	64.74	87.19	-42.37	-8,182.97	4,432.22	7,022.99	6,903.99	119.00	59.018	
12,400.00	7,870.00	5,048.00	5,048.00	66.16	87.19	-42.37	-8,182.97	4,432.22	6,938.88	6,819.95	118.93	58.345	
12,500.00	7,870.00	5,048.00	5,048.00	67.59	87.19	-42.37	-8,182.97	4,432.22	6,855.19	6,736.30	118.89	57.660	
12,600.00	7,870.00	5,048.00	5,048.00	69.04	87.19	-42.37	-8,182.97	4,432.22	6,771.94	6,653.06	118.88	56.963	
12,700.00	7,870.00	5,048.00	5,048.00	70.51	87.19	-42.37	-8,182.97	4,432.22	6,689.15	6,570.24	118.91	56.254	
12,800.00	7,870.00	5,048.00	5,048.00	71.98	87.19	-42.37	-8,182.97	4,432.22	6,606.84	6,487.86	118.97	55.532	
12,900.00	7,870.00	5,048.00	5,048.00	73.47	87.19	-42.37	-8,182.97	4,432.22	6,525.02	6,405.95	119.07	54.798	
13,000.00	7,870.00	5,048.00	5,048.00	74.96	87.19	-42.37	-8,182.97	4,432.22	6,443.72	6,324.50	119.21	54.051	
13,100.00	7,870.00	5,048.00	5,048.00	76.47	87.19	-42.37	-8,182.97	4,432.22	6,362.94	6,243.55	119.40	53.293	
13,200.00	7,870.00	5,048.00	5,048.00	77.99	87.19	-42.37	-8,182.97	4,432.22	6,282.73	6,163.10	119.62	52.522	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,300.00	7,870.00	5,048.00	5,048.00	79.51	87.19	-42.37	-8,182.97	4,432.22	6,203.08	6,083.19	119.89	51.739	
13,400.00	7,870.00	5,048.00	5,048.00	81.05	87.19	-42.37	-8,182.97	4,432.22	6,124.03	6,003.83	120.21	50.946	
13,500.00	7,870.00	5,048.00	5,048.00	82.59	87.19	-42.37	-8,182.97	4,432.22	6,045.61	5,925.04	120.57	50.142	
13,600.00	7,870.00	5,048.00	5,048.00	84.14	87.19	-42.37	-8,182.97	4,432.22	5,967.83	5,846.85	120.98	49.328	
13,700.00	7,870.00	5,048.00	5,048.00	85.70	87.19	-42.37	-8,182.97	4,432.22	5,890.72	5,769.27	121.44	48.506	
13,800.00	7,870.00	5,048.00	5,048.00	87.26	87.19	-42.37	-8,182.97	4,432.22	5,814.30	5,692.35	121.96	47.675	
13,900.00	7,870.00	5,048.00	5,048.00	88.83	87.19	-42.37	-8,182.97	4,432.22	5,738.62	5,616.09	122.52	46.837	
14,000.00	7,870.00	5,048.00	5,048.00	90.41	87.19	-42.37	-8,182.97	4,432.22	5,663.68	5,540.54	123.14	45.993	
14,100.00	7,870.00	5,048.00	5,048.00	92.00	87.19	-42.37	-8,182.97	4,432.22	5,589.53	5,465.72	123.81	45.145	
14,200.00	7,870.00	5,048.00	5,048.00	93.59	87.19	-42.37	-8,182.97	4,432.22	5,516.20	5,391.66	124.54	44.293	
14,300.00	7,870.00	5,048.00	5,048.00	95.18	87.19	-42.37	-8,182.97	4,432.22	5,443.71	5,318.39	125.32	43.438	
14,400.00	7,870.00	5,048.00	5,048.00	96.79	87.19	-42.37	-8,182.97	4,432.22	5,372.11	5,245.96	126.16	42.583	
14,500.00	7,870.00	5,048.00	5,048.00	98.39	87.19	-42.37	-8,182.97	4,432.22	5,301.43	5,174.38	127.05	41.727	
14,600.00	7,870.00	5,048.00	5,048.00	100.00	87.19	-42.37	-8,182.97	4,432.22	5,231.71	5,103.71	128.00	40.874	
14,700.00	7,870.00	5,048.00	5,048.00	101.62	87.19	-42.37	-8,182.97	4,432.22	5,162.98	5,033.98	129.00	40.024	
14,800.00	7,870.00	5,048.00	5,048.00	103.24	87.19	-42.37	-8,182.97	4,432.22	5,095.29	4,965.23	130.06	39.178	
14,900.00	7,870.00	5,048.00	5,048.00	104.87	87.19	-42.37	-8,182.97	4,432.22	5,028.67	4,897.50	131.17	38.337	
15,000.00	7,870.00	5,048.00	5,048.00	106.50	87.19	-42.37	-8,182.97	4,432.22	4,963.17	4,830.84	132.34	37.504	
15,100.00	7,870.00	5,048.00	5,048.00	108.13	87.19	-42.37	-8,182.97	4,432.22	4,898.84	4,765.29	133.56	36.680	
15,200.00	7,870.00	5,048.00	5,048.00	109.77	87.19	-42.37	-8,182.97	4,432.22	4,835.73	4,700.90	134.83	35.865	
15,300.00	7,870.00	5,048.00	5,048.00	111.41	87.19	-42.37	-8,182.97	4,432.22	4,773.87	4,637.71	136.16	35.061	
15,400.00	7,870.00	5,048.00	5,048.00	113.05	87.19	-42.37	-8,182.97	4,432.22	4,713.32	4,575.79	137.54	34.269	
15,500.00	7,870.00	5,048.00	5,048.00	114.70	87.19	-42.37	-8,182.97	4,432.22	4,654.14	4,515.17	138.97	33.490	
15,600.00	7,870.00	5,048.00	5,048.00	116.35	87.19	-42.37	-8,182.97	4,432.22	4,596.37	4,455.92	140.45	32.726	
15,700.00	7,870.00	5,048.00	5,048.00	118.00	87.19	-42.37	-8,182.97	4,432.22	4,540.06	4,398.08	141.98	31.977	
15,800.00	7,870.00	5,048.00	5,048.00	119.66	87.19	-42.37	-8,182.97	4,432.22	4,485.28	4,341.72	143.56	31.244	
15,900.00	7,870.00	5,048.00	5,048.00	121.32	87.19	-42.37	-8,182.97	4,432.22	4,432.08	4,286.90	145.18	30.528	
16,000.00	7,870.00	5,048.00	5,048.00	122.98	87.19	-42.37	-8,182.97	4,432.22	4,380.51	4,233.67	146.85	29.831	
16,100.00	7,870.00	5,048.00	5,048.00	124.65	87.19	-42.37	-8,182.97	4,432.22	4,330.65	4,182.09	148.56	29.151	
16,200.00	7,870.00	5,048.00	5,048.00	126.32	87.19	-42.37	-8,182.97	4,432.22	4,282.53	4,132.22	150.31	28.492	
16,300.00	7,870.00	5,048.00	5,048.00	127.99	87.19	-42.37	-8,182.97	4,432.22	4,236.23	4,084.13	152.10	27.852	
16,400.00	7,870.00	5,048.00	5,048.00	129.66	87.19	-42.37	-8,182.97	4,432.22	4,191.81	4,037.88	153.92	27.233	
16,500.00	7,870.00	5,048.00	5,048.00	131.33	87.19	-42.37	-8,182.97	4,432.22	4,149.32	3,993.53	155.78	26.635	
16,600.00	7,870.00	5,048.00	5,048.00	133.01	87.19	-42.37	-8,182.97	4,432.22	4,108.82	3,951.14	157.68	26.058	
16,700.00	7,870.00	5,048.00	5,048.00	134.69	87.19	-42.37	-8,182.97	4,432.22	4,070.38	3,910.78	159.60	25.504	
16,800.00	7,870.00	5,048.00	5,048.00	136.37	87.19	-42.37	-8,182.97	4,432.22	4,034.05	3,872.50	161.55	24.971	
16,900.00	7,870.00	5,048.00	5,048.00	138.06	87.19	-42.37	-8,182.97	4,432.22	3,999.89	3,836.37	163.52	24.461	
17,000.00	7,870.00	5,048.00	5,048.00	139.74	87.19	-42.37	-8,182.97	4,432.22	3,967.96	3,802.45	165.51	23.974	
17,100.00	7,870.00	5,048.00	5,048.00	141.43	87.19	-42.37	-8,182.97	4,432.22	3,938.31	3,770.79	167.52	23.509	
17,200.00	7,870.00	5,048.00	5,048.00	143.12	87.19	-42.37	-8,182.97	4,432.22	3,911.00	3,741.45	169.54	23.068	
17,300.00	7,870.00	5,048.00	5,048.00	144.81	87.19	-42.37	-8,182.97	4,432.22	3,886.06	3,714.48	171.58	22.649	
17,400.00	7,870.00	5,048.00	5,048.00	146.50	87.19	-42.37	-8,182.97	4,432.22	3,863.55	3,689.94	173.62	22.253	
17,500.00	7,870.00	5,048.00	5,048.00	148.19	87.19	-42.37	-8,182.97	4,432.22	3,843.52	3,667.86	175.66	21.880	
17,600.00	7,870.00	5,048.00	5,048.00	149.89	87.19	-42.37	-8,182.97	4,432.22	3,825.99	3,648.29	177.70	21.530	
17,700.00	7,870.00	5,048.00	5,048.00	151.59	87.19	-42.37	-8,182.97	4,432.22	3,811.01	3,631.27	179.74	21.203	
17,800.00	7,870.00	5,048.00	5,048.00	153.29	87.19	-42.37	-8,182.97	4,432.22	3,798.60	3,616.84	181.77	20.898	
17,900.00	7,870.00	5,048.00	5,048.00	154.99	87.19	-42.37	-8,182.97	4,432.22	3,788.79	3,605.01	183.78	20.616	
18,000.00	7,870.00	5,048.00	5,048.00	156.69	87.19	-42.37	-8,182.97	4,432.22	3,781.60	3,595.83	185.77	20.356	
18,100.00	7,870.00	5,048.00	5,048.00	158.39	87.19	-42.37	-8,182.97	4,432.22	3,777.05	3,589.30	187.75	20.118	
18,200.00	7,870.00	5,048.00	5,048.00	160.09	87.19	-42.37	-8,182.97	4,432.22	3,775.14	3,585.45	189.69	19.901	
18,222.09	7,870.00	5,048.00	5,048.00	160.47	87.19	-42.37	-8,182.97	4,432.22	3,775.08	3,584.96	190.12	19.857	CC
18,300.00	7,870.00	5,048.00	5,048.00	161.80	87.19	-42.37	-8,182.97	4,432.22	3,775.88	3,584.28	191.61	19.707	ES

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.00	7,870.00	5,048.00	5,048.00	163.51	87.19	-42.37	-8,182.97	4,432.22	3,779.27	3,585.78	193.48	19.533	
18,455.45	7,870.00	5,048.00	5,048.00	164.45	87.19	-42.37	-8,182.97	4,432.22	3,782.28	3,587.78	194.51	19.446	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 548-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	141.79	-4,069.62	3,203.47	5,179.21				
100.00	100.00	109.57	109.57	0.13	0.19	141.79	-4,069.59	3,203.15	5,179.01	5,178.69	0.33	N/A	
200.00	200.00	234.08	234.07	0.49	0.41	141.80	-4,069.46	3,202.00	5,178.36	5,177.46	0.90	5,722.911	
300.00	300.00	358.57	358.54	0.85	0.63	141.82	-4,069.24	3,200.02	5,177.23	5,175.75	1.48	3,493.094	
400.00	400.00	483.02	482.96	1.21	0.85	141.84	-4,068.92	3,197.20	5,175.64	5,173.58	2.06	2,513.285	
500.00	500.00	607.43	607.32	1.57	1.07	141.87	-4,068.51	3,193.55	5,173.57	5,170.93	2.64	1,962.355	
600.00	600.00	661.52	661.40	1.93	1.37	141.88	-4,068.26	3,192.61	5,171.93	5,168.63	3.30	1,569.050	
700.00	700.00	732.00	731.88	2.29	1.62	141.88	-4,067.68	3,192.27	5,170.94	5,167.04	3.90	1,326.421	
800.00	800.00	790.89	790.75	2.64	1.81	141.86	-4,066.90	3,193.03	5,170.60	5,166.15	4.45	1,160.673	
810.65	810.65	798.79	798.65	2.68	1.84	141.86	-4,066.77	3,193.19	5,170.60	5,166.08	4.52	1,144.046	
900.00	900.00	868.26	868.09	3.00	2.08	141.83	-4,065.37	3,195.20	5,170.78	5,165.71	5.07	1,018.930	
1,000.00	1,000.00	1,058.43	1,057.86	3.36	2.74	141.70	-4,057.38	3,204.22	5,170.52	5,164.42	6.10	848.097	
1,100.00	1,100.00	1,131.02	1,130.21	3.72	3.00	141.64	-4,053.04	3,208.29	5,169.33	5,162.62	6.72	769.689	
1,200.00	1,200.00	1,191.10	1,190.04	4.08	3.22	141.58	-4,049.48	3,212.36	5,168.90	5,161.61	7.29	708.731	
1,300.00	1,300.00	1,347.83	1,345.74	4.44	3.80	141.38	-4,037.88	3,225.87	5,168.56	5,160.32	8.24	627.282	
1,400.00	1,399.98	1,469.98	1,466.53	4.79	4.28	98.28	-4,025.29	3,238.92	5,167.43	5,158.36	9.08	569.386	
1,500.00	1,499.84	1,544.73	1,540.14	5.15	4.59	98.19	-4,016.43	3,248.48	5,166.94	5,157.20	9.74	530.554	
1,501.96	1,501.79	1,546.23	1,541.62	5.16	4.60	98.19	-4,016.24	3,248.68	5,166.94	5,157.18	9.75	529.833	
1,600.00	1,599.45	1,589.02	1,583.66	5.51	4.78	98.12	-4,011.09	3,254.73	5,167.68	5,157.40	10.28	502.471	
1,700.00	1,698.70	1,639.00	1,632.67	5.87	4.99	98.04	-4,005.26	3,262.56	5,170.07	5,159.21	10.86	475.991	
1,800.00	1,797.47	1,722.83	1,714.63	6.24	5.37	97.92	-3,995.13	3,276.97	5,173.66	5,162.05	11.61	445.682	
1,900.00	1,895.62	1,900.00	2,051.38	6.63	6.19	97.80	-3,946.32	3,330.83	5,174.70	5,161.88	12.82	403.782	
1,951.72	1,946.11	2,109.56	2,092.75	6.84	7.15	97.81	-3,940.08	3,336.15	5,174.45	5,160.46	13.99	369.882	
2,000.00	1,993.06	2,129.84	2,112.67	7.04	7.24	97.82	-3,937.25	3,338.70	5,174.64	5,160.36	14.28	362.329	
2,100.00	2,089.64	2,163.00	2,145.27	7.48	7.39	97.81	-3,932.90	3,342.94	5,176.23	5,161.36	14.87	348.121	
2,200.00	2,185.27	2,231.59	2,212.75	7.94	7.70	97.84	-3,924.50	3,351.96	5,179.17	5,163.53	15.64	331.069	
2,300.00	2,279.82	2,303.80	2,283.76	8.45	8.03	97.87	-3,916.05	3,361.92	5,183.36	5,166.89	16.47	314.682	
2,400.00	2,373.17	2,383.45	2,362.01	8.99	8.39	97.93	-3,906.68	3,373.44	5,188.46	5,171.08	17.38	298.603	
2,500.00	2,465.21	2,467.56	2,444.67	9.58	8.78	98.00	-3,897.07	3,385.72	5,194.44	5,176.09	18.34	283.153	
2,574.08	2,532.50	2,557.01	2,532.58	10.04	9.19	98.15	-3,886.92	3,398.75	5,199.30	5,180.08	19.22	270.501	
2,600.00	2,555.89	2,605.84	2,580.48	10.21	9.42	98.28	-3,880.88	3,406.08	5,200.93	5,181.31	19.62	265.139	
2,700.00	2,646.16	2,663.41	2,636.90	10.88	9.69	98.43	-3,873.71	3,415.01	5,207.46	5,186.91	20.55	253.422	
2,800.00	2,736.44	2,774.07	2,745.23	11.57	10.22	98.71	-3,859.88	3,432.81	5,214.46	5,192.70	21.76	239.629	
2,900.00	2,826.71	2,849.63	2,819.30	12.27	10.58	98.91	-3,850.68	3,444.56	5,221.47	5,198.65	22.81	228.862	
3,000.00	2,916.98	2,937.05	2,905.24	13.00	10.99	99.15	-3,840.99	3,457.34	5,228.89	5,204.96	23.93	218.493	
3,100.00	3,007.25	3,056.02	3,022.09	13.73	11.54	99.47	-3,827.44	3,475.12	5,236.41	5,211.20	25.21	207.680	
3,200.00	3,097.52	3,171.16	3,135.01	14.48	12.09	99.77	-3,813.10	3,492.47	5,243.21	5,216.71	26.49	197.899	
3,300.00	3,187.80	3,210.00	3,173.13	15.23	12.27	99.88	-3,808.46	3,498.25	5,250.68	5,223.27	27.41	191.539	
3,400.00	3,278.07	3,273.86	3,235.81	15.99	12.57	100.05	-3,801.25	3,508.12	5,259.01	5,230.55	28.46	184.802	
3,500.00	3,368.34	3,319.00	3,280.08	16.76	12.79	100.16	-3,796.48	3,515.54	5,268.45	5,239.04	29.41	179.117	
3,600.00	3,458.61	3,363.54	3,323.77	17.54	13.00	100.28	-3,792.17	3,523.07	5,278.95	5,248.58	30.37	173.833	
3,700.00	3,548.89	3,417.59	3,376.80	18.32	13.25	100.42	-3,787.43	3,532.41	5,290.47	5,259.10	31.37	168.650	
3,800.00	3,639.16	3,486.03	3,443.97	19.10	13.57	100.61	-3,781.93	3,544.31	5,302.73	5,270.29	32.44	163.444	
3,900.00	3,729.43	3,870.08	3,822.09	19.89	15.33	101.68	-3,744.25	3,599.14	5,309.97	5,274.95	35.03	151.587	
4,000.00	3,819.70	3,941.90	3,893.01	20.69	15.64	101.90	-3,736.88	3,607.76	5,317.78	5,281.67	36.11	147.246	
4,100.00	3,909.98	4,040.29	3,990.11	21.48	16.08	102.18	-3,726.67	3,619.91	5,325.85	5,288.52	37.32	142.694	
4,200.00	4,000.25	4,106.21	4,055.11	22.28	16.38	102.37	-3,719.67	3,628.35	5,334.16	5,295.78	38.39	138.959	
4,300.00	4,090.52	4,147.18	4,095.47	23.08	16.57	102.49	-3,715.53	3,634.03	5,343.51	5,304.17	39.33	135.848	
4,400.00	4,180.79	4,262.18	4,208.46	23.88	17.10	102.79	-3,703.61	3,651.80	5,353.67	5,313.02	40.65	131.696	
4,500.00	4,271.06	4,335.15	4,280.19	24.69	17.44	102.98	-3,696.01	3,662.81	5,363.64	5,321.88	41.76	128.440	
4,600.00	4,361.34	4,407.71	4,351.83	25.49	17.77	103.19	-3,689.65	3,672.42	5,374.12	5,331.27	42.85	125.425	
4,700.00	4,451.61	4,509.39	4,452.61	26.30	18.19	103.51	-3,682.40	3,683.75	5,384.98	5,340.94	44.04	122.265	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 548-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.00	4,541.88	4,664.97	4,607.60	27.11	18.77	104.07	-3,674.17	3,694.19	5,395.23	5,349.83	45.40	118.834	
4,900.00	4,632.15	4,787.34	4,729.81	27.92	19.19	104.56	-3,669.23	3,698.15	5,405.04	5,358.45	46.58	116.026	
5,000.00	4,722.43	4,871.76	4,814.19	28.74	19.45	104.92	-3,666.88	3,698.85	5,414.94	5,367.33	47.61	113.743	
5,100.00	4,812.70	5,023.02	4,965.39	29.55	19.88	105.60	-3,664.46	3,695.63	5,424.69	5,375.90	48.79	111.180	
5,200.00	4,902.97	5,131.15	5,073.43	30.37	20.18	106.10	-3,662.74	3,691.63	5,434.06	5,384.22	49.84	109.032	
5,300.00	4,993.24	5,243.95	5,186.11	31.18	20.49	106.62	-3,660.90	3,686.79	5,443.47	5,392.58	50.90	106.954	
5,400.00	5,083.51	5,305.00	5,247.09	32.00	20.66	106.91	-3,659.77	3,684.00	5,453.06	5,401.25	51.81	105.254	
5,500.00	5,173.79	5,372.54	5,314.56	32.82	20.85	107.22	-3,658.65	3,681.30	5,463.38	5,410.63	52.74	103.588	
5,600.00	5,264.06	5,419.10	5,361.10	33.63	20.98	107.43	-3,658.10	3,679.98	5,474.82	5,421.21	53.61	102.125	
5,700.00	5,354.33	5,480.00	5,421.99	34.45	21.16	107.70	-3,657.65	3,678.93	5,487.34	5,432.82	54.51	100.660	
5,800.00	5,444.60	5,536.48	5,478.46	35.27	21.32	107.94	-3,657.40	3,678.32	5,500.67	5,445.26	55.40	99.282	
5,900.00	5,534.88	5,617.41	5,559.39	36.09	21.56	108.30	-3,657.12	3,677.54	5,514.52	5,458.15	56.37	97.827	
6,000.00	5,625.15	5,705.37	5,647.35	36.91	21.82	108.68	-3,656.92	3,676.76	5,528.79	5,471.44	57.36	96.394	
6,100.00	5,715.42	5,799.31	5,741.28	37.74	22.10	109.09	-3,656.72	3,675.77	5,543.33	5,484.97	58.36	94.988	
6,200.00	5,805.69	5,899.86	5,841.82	38.56	22.40	109.52	-3,656.50	3,674.50	5,558.08	5,498.70	59.38	93.602	
6,300.00	5,895.96	6,003.42	5,945.37	39.38	22.71	109.97	-3,656.14	3,672.90	5,572.91	5,512.50	60.41	92.255	
6,400.00	5,986.24	6,106.36	6,048.30	40.20	23.02	110.42	-3,655.65	3,671.00	5,587.83	5,526.40	61.43	90.960	
6,500.00	6,076.51	6,209.19	6,151.10	41.03	23.33	110.86	-3,655.03	3,668.82	5,602.85	5,540.40	62.45	89.715	
6,600.00	6,166.78	6,289.86	6,231.75	41.85	23.57	111.21	-3,654.63	3,666.99	5,618.20	5,554.80	63.39	88.622	
6,700.00	6,257.05	6,379.05	6,320.91	42.67	23.84	111.60	-3,654.26	3,664.87	5,633.89	5,569.53	64.36	87.532	
6,800.00	6,347.33	6,478.38	6,420.21	43.50	24.15	112.02	-3,653.66	3,662.70	5,649.79	5,584.43	65.37	86.434	
6,900.00	6,437.60	6,570.71	6,512.53	44.32	24.43	112.41	-3,652.85	3,660.96	5,665.87	5,599.52	66.34	85.400	
7,000.00	6,527.87	6,655.96	6,597.76	45.15	24.70	112.77	-3,652.03	3,659.64	5,682.28	5,614.98	67.30	84.432	
7,100.00	6,618.14	6,738.88	6,680.66	45.98	24.96	113.11	-3,651.19	3,658.66	5,699.05	5,630.81	68.25	83.507	
7,200.00	6,708.41	6,819.16	6,760.94	46.80	25.22	113.43	-3,650.31	3,658.22	5,716.25	5,647.07	69.19	82.622	
7,300.00	6,798.69	6,899.17	6,840.95	47.63	25.48	113.75	-3,649.38	3,658.31	5,733.87	5,663.75	70.12	81.770	
7,400.00	6,888.96	6,977.56	6,919.33	48.45	25.74	114.06	-3,648.57	3,658.57	5,751.93	5,680.88	71.05	80.954	
7,500.00	6,979.23	7,056.04	6,997.80	49.28	26.00	114.36	-3,647.92	3,658.90	5,770.44	5,698.46	71.98	80.170	
7,600.00	7,069.50	7,136.81	7,078.58	50.11	26.26	114.68	-3,647.40	3,659.25	5,789.36	5,716.46	72.91	79.408	
7,692.09	7,152.63	7,211.09	7,152.85	50.87	26.50	114.96	-3,647.06	3,659.56	5,807.15	5,733.39	73.76	78.732	
7,700.00	7,159.79	7,217.48	7,159.25	50.93	26.52	113.82	-3,647.04	3,659.59	5,808.64	5,734.81	73.83	78.675	
7,750.00	7,205.70	7,281.40	7,223.17	51.32	26.73	105.23	-3,646.76	3,659.76	5,815.70	5,741.33	74.37	78.196	
7,800.00	7,252.52	7,352.61	7,294.37	51.66	26.97	93.82	-3,646.24	3,659.69	5,818.53	5,743.60	74.92	77.659	
7,850.00	7,299.89	7,426.91	7,368.67	51.96	27.21	79.76	-3,645.47	3,659.31	5,817.06	5,741.60	75.46	77.086	
7,900.00	7,347.44	7,506.24	7,447.99	52.20	27.47	64.46	-3,644.35	3,658.51	5,811.26	5,735.27	75.99	76.476	
7,950.00	7,394.83	7,584.84	7,526.56	52.39	27.72	50.01	-3,642.94	3,657.29	5,801.15	5,724.67	76.48	75.853	
8,000.00	7,441.68	7,604.12	7,545.84	52.53	27.79	37.71	-3,642.60	3,657.03	5,787.06	5,710.34	76.72	75.430	
8,050.00	7,487.65	7,629.53	7,571.25	52.62	27.87	27.96	-3,642.20	3,656.76	5,769.24	5,692.29	76.96	74.968	
8,100.00	7,532.37	7,654.33	7,596.04	52.67	27.95	20.27	-3,641.87	3,656.60	5,747.81	5,670.65	77.16	74.493	
8,150.00	7,575.52	7,678.33	7,620.04	52.67	28.03	14.07	-3,641.60	3,656.54	5,722.91	5,645.58	77.33	74.005	
8,200.00	7,616.76	7,701.35	7,643.06	52.63	28.11	8.85	-3,641.38	3,656.58	5,694.70	5,617.22	77.47	73.505	
8,250.00	7,655.77	7,750.00	7,691.71	52.55	28.27	4.22	-3,641.08	3,656.95	5,663.48	5,585.79	77.69	72.897	
8,300.00	7,692.27	7,750.00	7,691.71	52.44	28.27	-0.18	-3,641.08	3,656.95	5,629.15	5,551.46	77.70	72.452	
8,350.00	7,725.97	7,767.20	7,708.90	52.29	28.32	-4.59	-3,641.02	3,657.17	5,592.25	5,514.50	77.75	71.930	
8,400.00	7,756.62	7,790.49	7,732.19	52.12	28.40	-9.33	-3,640.92	3,657.56	5,552.92	5,475.12	77.80	71.374	
8,450.00	7,783.98	7,811.31	7,753.00	51.92	28.47	-14.72	-3,640.84	3,658.00	5,511.45	5,433.62	77.83	70.817	
8,500.00	7,807.85	7,829.48	7,771.17	51.70	28.53	-21.19	-3,640.76	3,658.44	5,468.14	5,390.32	77.82	70.262	
8,550.00	7,828.05	7,844.86	7,786.54	51.45	28.58	-29.21	-3,640.70	3,658.87	5,423.33	5,345.53	77.80	69.712	
8,600.00	7,844.41	7,857.30	7,798.97	51.20	28.63	-39.36	-3,640.65	3,659.24	5,377.34	5,299.60	77.74	69.168	
8,650.00	7,856.82	7,866.70	7,808.37	50.93	28.66	-51.92	-3,640.61	3,659.54	5,330.54	5,252.87	77.67	68.634	
8,700.00	7,865.18	7,872.98	7,814.65	50.65	28.68	-66.46	-3,640.58	3,659.75	5,283.28	5,205.71	77.57	68.112	
8,750.00	7,869.43	7,876.10	7,817.77	50.36	28.69	-81.38	-3,640.57	3,659.86	5,235.93	5,158.48	77.45	67.606	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 548-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,776.25	7,870.00	7,876.45	7,818.12	50.21	28.69	-88.70	-3,640.57	3,659.87	5,211.15	5,133.78	77.38	67.346	
8,800.00	7,870.00	7,876.38	7,818.04	50.08	28.69	-88.70	-3,640.57	3,659.87	5,188.80	5,111.49	77.31	67.114	
8,900.00	7,870.00	7,876.05	7,817.72	49.53	28.69	-88.69	-3,640.57	3,659.86	5,094.82	5,017.79	77.04	66.136	
9,000.00	7,870.00	7,875.72	7,817.39	49.01	28.69	-88.68	-3,640.57	3,659.85	5,001.08	4,924.32	76.75	65.158	
9,100.00	7,870.00	7,875.39	7,817.06	48.52	28.69	-88.66	-3,640.57	3,659.84	4,907.57	4,831.11	76.47	64.180	
9,200.00	7,870.00	7,875.06	7,816.73	48.06	28.69	-88.65	-3,640.58	3,659.82	4,814.33	4,738.16	76.17	63.202	
9,300.00	7,870.00	7,874.74	7,816.41	47.63	28.68	-88.64	-3,640.58	3,659.81	4,721.37	4,645.49	75.88	62.224	
9,400.00	7,870.00	7,874.41	7,816.08	47.22	28.68	-88.63	-3,640.58	3,659.80	4,628.70	4,553.12	75.58	61.245	
9,500.00	7,870.00	7,874.08	7,815.75	46.83	28.68	-88.62	-3,640.58	3,659.79	4,536.34	4,461.07	75.27	60.266	
9,600.00	7,870.00	7,873.76	7,815.42	46.48	28.68	-88.61	-3,640.58	3,659.78	4,444.32	4,369.35	74.97	59.285	
9,700.00	7,870.00	7,873.43	7,815.10	46.14	28.68	-88.60	-3,640.58	3,659.77	4,352.64	4,277.98	74.66	58.303	
9,800.00	7,870.00	7,873.10	7,814.77	45.83	28.68	-88.59	-3,640.58	3,659.76	4,261.34	4,186.99	74.34	57.318	
9,900.00	7,870.00	7,872.77	7,814.44	45.54	28.68	-88.58	-3,640.59	3,659.75	4,170.43	4,096.40	74.03	56.332	
10,000.00	7,870.00	7,872.45	7,814.12	45.27	28.68	-88.57	-3,640.59	3,659.73	4,079.96	4,006.23	73.72	55.342	
10,100.00	7,870.00	7,872.12	7,813.79	45.03	28.68	-88.56	-3,640.59	3,659.72	3,989.94	3,916.52	73.42	54.348	
10,200.00	7,870.00	7,871.80	7,813.47	44.82	28.68	-88.55	-3,640.59	3,659.71	3,900.40	3,827.29	73.11	53.349	
10,300.00	7,870.00	7,871.47	7,813.14	44.66	28.67	-88.54	-3,640.59	3,659.70	3,811.38	3,738.57	72.81	52.344	
10,400.00	7,870.00	7,871.14	7,812.81	44.56	28.67	-88.53	-3,640.59	3,659.69	3,722.92	3,650.40	72.53	51.332	
10,500.00	7,870.00	7,870.82	7,812.49	44.58	28.67	-88.52	-3,640.59	3,659.68	3,635.06	3,562.81	72.25	50.312	
10,600.00	7,870.00	7,870.49	7,812.16	44.82	28.67	-88.50	-3,640.59	3,659.67	3,547.85	3,475.86	71.99	49.282	
10,700.00	7,870.00	7,870.17	7,811.84	45.36	28.67	-88.49	-3,640.60	3,659.66	3,461.32	3,389.57	71.75	48.240	
10,800.00	7,870.00	7,869.84	7,811.51	46.15	28.67	-88.48	-3,640.60	3,659.65	3,375.54	3,304.00	71.54	47.185	
10,900.00	7,870.00	7,869.51	7,811.19	47.09	28.67	-88.47	-3,640.60	3,659.64	3,290.56	3,219.21	71.36	46.115	
11,000.00	7,870.00	7,869.19	7,810.86	48.13	28.67	-88.46	-3,640.60	3,659.62	3,206.45	3,135.24	71.21	45.027	
11,100.00	7,870.00	7,868.86	7,810.54	49.22	28.67	-88.45	-3,640.60	3,659.61	3,123.28	3,052.16	71.11	43.919	
11,200.00	7,870.00	7,868.54	7,810.21	50.37	28.66	-88.44	-3,640.60	3,659.60	3,041.12	2,970.04	71.07	42.790	
11,300.00	7,870.00	7,868.21	7,809.89	51.55	28.66	-88.43	-3,640.60	3,659.59	2,960.05	2,888.96	71.09	41.637	
11,400.00	7,870.00	7,867.89	7,809.56	52.76	28.66	-88.42	-3,640.61	3,659.58	2,880.18	2,808.99	71.19	40.458	
11,500.00	7,870.00	7,867.56	7,809.24	54.00	28.66	-88.41	-3,640.61	3,659.57	2,801.60	2,730.22	71.37	39.252	
11,600.00	7,870.00	7,867.24	7,808.91	55.27	28.66	-88.40	-3,640.61	3,659.56	2,724.42	2,652.76	71.66	38.018	
11,700.00	7,870.00	7,866.91	7,808.59	56.56	28.66	-88.39	-3,640.61	3,659.55	2,648.77	2,576.71	72.06	36.756	
11,800.00	7,870.00	7,866.59	7,808.26	57.88	28.66	-88.38	-3,640.61	3,659.54	2,574.79	2,502.19	72.59	35.468	
11,900.00	7,870.00	7,866.26	7,807.94	59.21	28.66	-88.37	-3,640.61	3,659.53	2,502.61	2,429.34	73.27	34.157	
12,000.00	7,870.00	7,865.94	7,807.61	60.57	28.66	-88.36	-3,640.61	3,659.52	2,432.40	2,358.30	74.10	32.825	
12,100.00	7,870.00	7,865.62	7,807.29	61.94	28.65	-88.35	-3,640.61	3,659.51	2,364.34	2,289.23	75.10	31.480	
12,200.00	7,870.00	7,865.29	7,806.97	63.33	28.65	-88.34	-3,640.62	3,659.50	2,298.61	2,222.32	76.29	30.130	
12,300.00	7,870.00	7,864.97	7,806.64	64.74	28.65	-88.32	-3,640.62	3,659.49	2,235.43	2,157.76	77.67	28.782	
12,400.00	7,870.00	7,864.64	7,806.32	66.16	28.65	-88.31	-3,640.62	3,659.47	2,175.01	2,095.77	79.24	27.447	
12,500.00	7,870.00	7,864.32	7,806.00	67.59	28.65	-88.30	-3,640.62	3,659.46	2,117.59	2,036.57	81.02	26.137	
12,600.00	7,870.00	7,864.00	7,805.67	69.04	28.65	-88.29	-3,640.62	3,659.45	2,063.42	1,980.43	82.99	24.864	
12,700.00	7,870.00	7,863.67	7,805.35	70.51	28.65	-88.28	-3,640.62	3,659.44	2,012.77	1,927.62	85.15	23.638	
12,800.00	7,870.00	7,863.35	7,805.03	71.98	28.65	-88.27	-3,640.62	3,659.43	1,965.90	1,878.41	87.48	22.472	
12,900.00	7,870.00	7,863.03	7,804.70	73.47	28.65	-88.26	-3,640.63	3,659.42	1,923.09	1,833.12	89.97	21.374	
13,000.00	7,870.00	7,862.70	7,804.38	74.96	28.64	-88.25	-3,640.63	3,659.41	1,884.62	1,792.02	92.60	20.353	
13,100.00	7,870.00	7,862.38	7,804.06	76.47	28.64	-88.24	-3,640.63	3,659.40	1,850.76	1,755.44	95.32	19.417	
13,200.00	7,870.00	7,862.06	7,803.73	77.99	28.64	-88.23	-3,640.63	3,659.39	1,821.77	1,723.66	98.10	18.570	
13,300.00	7,870.00	7,861.73	7,803.41	79.51	28.64	-88.22	-3,640.63	3,659.38	1,797.88	1,696.96	100.91	17.816	
13,400.00	7,870.00	7,861.41	7,803.09	81.05	28.64	-88.21	-3,640.63	3,659.37	1,779.29	1,675.59	103.70	17.158	
13,500.00	7,870.00	7,861.09	7,802.77	82.59	28.64	-88.20	-3,640.63	3,659.36	1,766.18	1,659.75	106.43	16.595	
13,600.00	7,870.00	7,860.77	7,802.44	84.14	28.64	-88.19	-3,640.64	3,659.35	1,758.67	1,649.62	109.05	16.127	
13,682.41	7,870.00	7,860.50	7,802.18	85.42	28.64	-88.18	-3,640.64	3,659.34	1,756.74	1,645.63	111.11	15.811	CC
13,700.00	7,870.00	7,860.44	7,802.12	85.70	28.64	-88.18	-3,640.64	3,659.34	1,756.82	1,645.29	111.53	15.752	ES

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 548-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	7,870.00	7,860.12	7,801.80	87.26	28.64	-88.17	-3,640.64	3,659.33	1,760.67	1,646.83	113.84	15.467	
13,900.00	7,870.00	7,859.80	7,801.48	88.83	28.63	-88.16	-3,640.64	3,659.32	1,770.16	1,654.22	115.94	15.268	
14,000.00	7,870.00	7,859.48	7,801.16	90.41	28.63	-88.15	-3,640.64	3,659.31	1,785.21	1,667.39	117.82	15.152	
14,100.00	7,870.00	7,859.16	7,800.83	92.00	28.63	-88.14	-3,640.64	3,659.30	1,805.69	1,686.22	119.47	15.114 SF	
14,200.00	7,870.00	7,858.83	7,800.51	93.59	28.63	-88.12	-3,640.64	3,659.29	1,831.40	1,710.51	120.89	15.150	
14,300.00	7,870.00	7,858.51	7,800.19	95.18	28.63	-88.11	-3,640.64	3,659.28	1,862.13	1,740.06	122.07	15.254	
14,400.00	7,870.00	7,858.19	7,799.87	96.79	28.63	-88.10	-3,640.65	3,659.27	1,897.65	1,774.61	123.04	15.423	
14,500.00	7,870.00	7,857.87	7,799.55	98.39	28.63	-88.09	-3,640.65	3,659.26	1,937.67	1,813.88	123.79	15.652	
14,600.00	7,870.00	7,857.55	7,799.23	100.00	28.63	-88.08	-3,640.65	3,659.25	1,981.94	1,857.58	124.36	15.937	
14,700.00	7,870.00	7,857.23	7,798.91	101.62	28.63	-88.07	-3,640.65	3,659.24	2,030.17	1,905.41	124.76	16.273	
14,800.00	7,870.00	7,856.91	7,798.59	103.24	28.62	-88.06	-3,640.65	3,659.23	2,082.10	1,957.09	125.00	16.656	
14,900.00	7,870.00	7,856.59	7,798.26	104.87	28.62	-88.05	-3,640.65	3,659.22	2,137.44	2,012.32	125.12	17.084	
15,000.00	7,870.00	7,856.27	7,797.94	106.50	28.62	-88.04	-3,640.65	3,659.21	2,195.94	2,070.82	125.12	17.551	
15,100.00	7,870.00	7,855.94	7,797.62	108.13	28.62	-88.03	-3,640.66	3,659.20	2,257.36	2,132.34	125.02	18.056	
15,200.00	7,870.00	7,855.62	7,797.30	109.77	28.62	-88.02	-3,640.66	3,659.19	2,321.46	2,196.62	124.84	18.596	
15,300.00	7,870.00	7,855.30	7,796.98	111.41	28.62	-88.01	-3,640.66	3,659.18	2,388.03	2,263.44	124.59	19.167	
15,400.00	7,870.00	7,854.98	7,796.66	113.05	28.62	-88.00	-3,640.66	3,659.17	2,456.87	2,332.58	124.29	19.767	
15,500.00	7,870.00	7,854.66	7,796.34	114.70	28.62	-87.99	-3,640.66	3,659.16	2,527.79	2,403.84	123.95	20.394	
15,600.00	7,870.00	7,854.34	7,796.02	116.35	28.62	-87.98	-3,640.66	3,659.15	2,600.62	2,477.05	123.57	21.045	
15,700.00	7,870.00	7,854.02	7,795.70	118.00	28.62	-87.97	-3,640.66	3,659.14	2,675.21	2,552.04	123.17	21.720	
15,800.00	7,870.00	7,853.70	7,795.38	119.66	28.61	-87.96	-3,640.66	3,659.13	2,751.41	2,628.66	122.75	22.415	
15,900.00	7,870.00	7,853.38	7,795.06	121.32	28.61	-87.95	-3,640.67	3,659.12	2,829.09	2,706.78	122.31	23.130	
16,000.00	7,870.00	7,853.06	7,794.74	122.98	28.61	-87.94	-3,640.67	3,659.11	2,908.14	2,786.27	121.87	23.863	
16,100.00	7,870.00	7,852.74	7,794.42	124.65	28.61	-87.93	-3,640.67	3,659.10	2,988.44	2,867.03	121.42	24.613	
16,200.00	7,870.00	7,852.42	7,794.10	126.32	28.61	-87.92	-3,640.67	3,659.09	3,069.90	2,948.94	120.97	25.378	
16,300.00	7,870.00	7,852.10	7,793.79	127.99	28.61	-87.91	-3,640.67	3,659.08	3,152.43	3,031.91	120.52	26.157	
16,400.00	7,870.00	7,851.79	7,793.47	129.66	28.61	-87.89	-3,640.67	3,659.07	3,235.94	3,115.87	120.08	26.949	
16,500.00	7,870.00	7,851.47	7,793.15	131.33	28.61	-87.88	-3,640.67	3,659.06	3,320.37	3,200.73	119.64	27.754	
16,600.00	7,870.00	7,851.15	7,792.83	133.01	28.61	-87.87	-3,640.67	3,659.05	3,405.64	3,286.43	119.20	28.570	
16,700.00	7,870.00	7,850.83	7,792.51	134.69	28.60	-87.86	-3,640.68	3,659.04	3,491.69	3,372.91	118.78	29.397	
16,800.00	7,870.00	7,850.51	7,792.19	136.37	28.60	-87.85	-3,640.68	3,659.03	3,578.46	3,460.10	118.36	30.233	
16,900.00	7,870.00	7,850.19	7,791.87	138.06	28.60	-87.84	-3,640.68	3,659.02	3,665.91	3,547.95	117.96	31.079	
17,000.00	7,870.00	7,849.87	7,791.55	139.74	28.60	-87.83	-3,640.68	3,659.01	3,753.98	3,636.43	117.56	31.933	
17,100.00	7,870.00	7,849.55	7,791.24	141.43	28.60	-87.82	-3,640.68	3,659.00	3,842.64	3,725.47	117.17	32.795	
17,200.00	7,870.00	7,849.24	7,790.92	143.12	28.60	-87.81	-3,640.68	3,659.00	3,931.85	3,815.05	116.80	33.664	
17,300.00	7,870.00	7,848.92	7,790.60	144.81	28.60	-87.80	-3,640.68	3,658.99	4,021.56	3,905.13	116.43	34.541	
17,400.00	7,870.00	7,848.60	7,790.28	146.50	28.60	-87.79	-3,640.69	3,658.98	4,111.74	3,995.67	116.07	35.423	
17,500.00	7,870.00	7,848.28	7,789.96	148.19	28.60	-87.78	-3,640.69	3,658.97	4,202.37	4,086.64	115.73	36.312	
17,600.00	7,870.00	7,847.96	7,789.65	149.89	28.59	-87.77	-3,640.69	3,658.96	4,293.42	4,178.03	115.39	37.207	
17,700.00	7,870.00	7,847.65	7,789.33	151.59	28.59	-87.76	-3,640.69	3,658.95	4,384.86	4,269.79	115.07	38.106	
17,800.00	7,870.00	7,847.33	7,789.01	153.29	28.59	-87.75	-3,640.69	3,658.94	4,476.66	4,361.90	114.75	39.011	
17,900.00	7,870.00	7,847.01	7,788.69	154.99	28.59	-87.74	-3,640.69	3,658.93	4,568.80	4,454.36	114.45	39.920	
18,000.00	7,870.00	7,846.69	7,788.38	156.69	28.59	-87.73	-3,640.69	3,658.92	4,661.27	4,547.12	114.15	40.833	
18,100.00	7,870.00	7,846.38	7,788.06	158.39	28.59	-87.72	-3,640.69	3,658.91	4,754.05	4,640.18	113.87	41.750	
18,200.00	7,870.00	7,846.06	7,787.74	160.09	28.59	-87.71	-3,640.70	3,658.90	4,847.11	4,733.52	113.59	42.672	
18,300.00	7,870.00	7,845.74	7,787.42	161.80	28.59	-87.70	-3,640.70	3,658.89	4,940.45	4,827.12	113.32	43.596	
18,400.00	7,870.00	7,845.42	7,787.11	163.51	28.59	-87.69	-3,640.70	3,658.88	5,034.04	4,920.97	113.06	44.524	
18,455.45	7,870.00	7,845.25	7,786.93	164.45	28.59	-87.68	-3,640.70	3,658.88	5,086.04	4,973.11	112.92	45.040	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	29.80	29.79	0.00	0.05	163.03	-7,122.43	2,174.08	7,446.86				
100.00	100.00	151.52	151.52	0.13	0.38	163.02	-7,121.86	2,174.80	7,446.58	7,446.06	0.51	N/A	
200.00	200.00	231.90	231.90	0.49	0.66	163.02	-7,121.80	2,174.17	7,446.28	7,445.13	1.15	6,453.065	
234.99	234.99	257.00	256.99	0.62	0.75	163.03	-7,121.86	2,173.90	7,446.26	7,444.89	1.37	5,446.748	
300.00	300.00	292.45	292.44	0.85	0.87	163.03	-7,122.07	2,173.42	7,446.38	7,444.66	1.73	4,315.396	
400.00	400.00	349.00	348.97	1.21	1.07	163.04	-7,122.81	2,172.45	7,447.09	7,444.81	2.28	3,260.741	
500.00	500.00	411.89	411.83	1.57	1.30	163.05	-7,124.08	2,171.02	7,448.35	7,445.48	2.87	2,598.347	
600.00	600.00	482.38	482.26	1.93	1.55	163.07	-7,126.01	2,168.77	7,450.04	7,446.56	3.48	2,141.602	
700.00	700.00	898.00	894.54	2.29	3.18	163.45	-7,141.26	2,122.16	7,451.91	7,446.45	5.46	1,364.236	
800.00	800.00	949.58	945.04	2.64	3.41	163.53	-7,143.16	2,111.85	7,449.82	7,443.76	6.05	1,230.379	
900.00	900.00	1,010.44	1,004.51	3.00	3.69	163.63	-7,146.16	2,099.22	7,448.57	7,441.88	6.69	1,112.641	
1,000.00	1,000.00	1,072.10	1,064.44	3.36	3.99	163.74	-7,149.63	2,085.18	7,447.62	7,440.27	7.35	1,012.723	
1,065.60	1,065.60	1,096.00	1,087.60	3.60	4.11	163.79	-7,151.21	2,079.46	7,447.42	7,439.71	7.71	966.220	
1,100.00	1,100.00	1,096.00	1,087.60	3.72	4.11	163.79	-7,151.21	2,079.46	7,447.50	7,439.67	7.83	951.014	
1,200.00	1,200.00	1,134.87	1,125.20	4.08	4.31	163.86	-7,154.16	2,070.09	7,448.26	7,439.87	8.39	887.759	
1,300.00	1,300.00	1,183.00	1,171.73	4.44	4.56	163.96	-7,158.54	2,058.60	7,450.17	7,441.17	9.00	828.127	
1,400.00	1,399.98	1,183.00	1,171.73	4.79	4.56	120.95	-7,158.54	2,058.60	7,453.76	7,444.41	9.35	797.155	
1,500.00	1,499.84	1,241.22	1,227.80	5.15	4.88	120.98	-7,164.71	2,044.18	7,460.03	7,450.00	10.02	744.407	
1,600.00	1,599.45	1,271.00	1,256.32	5.51	5.04	120.91	-7,168.17	2,036.34	7,468.87	7,458.33	10.54	708.710	
1,700.00	1,698.70	1,324.54	1,307.47	5.87	5.35	120.87	-7,174.83	2,021.99	7,480.26	7,469.05	11.21	667.574	
1,800.00	1,797.47	1,379.11	1,359.55	6.24	5.67	120.81	-7,182.10	2,007.42	7,494.29	7,482.40	11.89	630.475	
1,900.00	1,895.62	1,482.29	1,458.04	6.63	6.28	120.88	-7,195.69	1,979.81	7,510.22	7,497.35	12.87	583.415	
2,000.00	1,993.06	1,532.00	1,505.42	7.04	6.58	120.75	-7,202.37	1,966.36	7,528.41	7,514.85	13.56	555.288	
2,100.00	2,089.64	1,583.17	1,554.10	7.48	6.90	120.58	-7,209.54	1,952.30	7,549.06	7,534.78	14.28	528.806	
2,200.00	2,185.27	1,620.00	1,589.04	7.94	7.13	120.33	-7,214.95	1,942.00	7,572.24	7,557.32	14.92	507.381	
2,300.00	2,279.82	1,671.35	1,637.71	8.45	7.45	120.09	-7,222.76	1,927.61	7,597.89	7,582.20	15.69	484.228	
2,400.00	2,373.17	1,722.89	1,686.56	8.99	7.78	119.83	-7,230.82	1,913.29	7,625.98	7,609.50	16.48	462.637	
2,500.00	2,465.21	2,231.00	2,171.98	9.58	10.92	121.68	-7,295.55	1,778.26	7,654.63	7,634.51	20.12	380.445	
2,574.08	2,532.50	2,269.02	2,208.57	10.04	11.15	121.49	-7,299.15	1,768.60	7,675.24	7,654.50	20.74	370.070	
2,600.00	2,555.89	2,277.79	2,217.00	10.21	11.20	121.53	-7,300.02	1,766.34	7,682.74	7,661.81	20.93	367.017	
2,700.00	2,646.16	2,318.00	2,255.58	10.88	11.44	121.72	-7,304.20	1,755.83	7,712.23	7,690.51	21.72	355.037	
2,800.00	2,736.44	2,368.01	2,303.53	11.57	11.75	121.96	-7,309.62	1,742.68	7,742.46	7,719.88	22.59	342.795	
2,900.00	2,826.71	2,583.66	2,511.07	12.27	13.03	122.96	-7,330.53	1,687.99	7,772.24	7,747.80	24.44	317.986	
3,000.00	2,916.98	2,691.66	2,615.19	13.00	13.67	123.45	-7,339.57	1,660.76	7,801.54	7,775.88	25.66	304.085	
3,100.00	3,007.25	2,720.19	2,642.65	13.73	13.84	123.58	-7,342.10	1,653.45	7,831.66	7,805.25	26.41	296.554	
3,200.00	3,097.52	2,755.00	2,676.15	14.48	14.05	123.74	-7,345.42	1,644.59	7,862.67	7,835.47	27.20	289.049	
3,300.00	3,187.80	2,860.06	2,777.47	15.23	14.66	124.21	-7,355.37	1,618.69	7,894.21	7,865.80	28.40	277.922	
3,400.00	3,278.07	2,991.31	2,904.66	15.99	15.40	124.78	-7,366.82	1,588.39	7,925.73	7,895.99	29.74	266.536	
3,500.00	3,368.34	3,133.33	3,042.29	16.76	16.20	125.40	-7,377.82	1,555.12	7,956.66	7,925.53	31.13	255.585	
3,600.00	3,458.61	3,191.00	3,097.98	17.54	16.53	125.65	-7,382.41	1,540.85	7,988.11	7,956.06	32.06	249.197	
3,700.00	3,548.89	3,221.41	3,127.28	18.32	16.72	125.78	-7,384.99	1,533.14	8,020.22	7,987.40	32.83	244.332	
3,800.00	3,639.16	3,278.00	3,181.73	19.10	17.05	126.03	-7,390.05	1,518.58	8,053.08	8,019.33	33.75	238.622	
3,900.00	3,729.43	3,278.00	3,181.73	19.89	17.05	126.03	-7,390.05	1,518.58	8,086.69	8,052.36	34.33	235.562	
4,000.00	3,819.70	3,318.05	3,220.23	20.69	17.29	126.21	-7,393.96	1,508.26	8,121.07	8,085.92	35.15	231.058	
4,100.00	3,909.98	3,366.00	3,266.33	21.48	17.58	126.42	-7,399.19	1,496.13	8,156.48	8,120.47	36.01	226.509	
4,200.00	4,000.25	4,200.00	3,313.91	22.28	22.65	126.64	-7,404.61	1,483.47	8,192.35	8,150.86	41.50	197.423	
4,300.00	4,090.52	3,540.00	3,433.36	23.08	18.65	127.18	-7,417.54	1,450.97	8,228.02	8,189.82	38.21	215.359	
4,400.00	4,180.79	3,577.44	3,469.19	23.88	18.88	127.35	-7,421.44	1,440.86	8,264.29	8,225.29	39.00	211.888	
4,500.00	4,271.06	3,628.00	3,517.37	24.69	19.21	127.57	-7,427.32	1,426.71	8,301.58	8,261.70	39.88	208.175	
4,600.00	4,361.34	4,558.89	4,431.93	25.49	23.27	130.73	-7,480.84	1,296.09	8,338.78	8,294.17	44.62	186.905	
4,700.00	4,451.61	4,728.36	4,601.39	26.30	23.68	131.13	-7,479.18	1,295.34	8,367.60	8,321.95	45.65	183.284	
4,800.00	4,541.88	4,911.29	4,784.28	27.11	24.11	131.55	-7,475.39	1,294.98	8,395.52	8,348.80	46.72	179.700	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,632.15	5,054.91	4,927.83	27.92	24.45	131.88	-7,471.17	1,294.35	8,422.75	8,375.06	47.69	176.617	
5,000.00	4,722.43	5,151.89	5,024.76	28.74	24.68	132.10	-7,467.91	1,293.93	8,449.72	8,401.18	48.54	174.079	
5,100.00	4,812.70	5,220.04	5,092.88	29.55	24.85	132.26	-7,465.74	1,293.78	8,476.98	8,427.67	49.31	171.898	
5,200.00	4,902.97	5,286.00	5,158.81	30.37	25.00	132.40	-7,463.82	1,293.78	8,504.61	8,454.53	50.08	169.817	
5,300.00	4,993.24	5,286.00	5,158.81	31.18	25.00	132.40	-7,463.82	1,293.78	8,532.97	8,482.30	50.67	168.411	
5,400.00	5,083.51	5,354.44	5,227.24	32.00	25.19	132.56	-7,462.39	1,293.48	8,561.67	8,510.22	51.45	166.406	
5,500.00	5,173.79	5,387.72	5,260.50	32.82	25.28	132.63	-7,462.04	1,293.07	8,591.27	8,539.15	52.13	164.820	
5,600.00	5,264.06	5,461.00	5,333.77	33.63	25.48	132.81	-7,462.07	1,291.53	8,621.85	8,568.93	52.92	162.937	
5,700.00	5,354.33	5,461.00	5,333.77	34.45	25.48	132.81	-7,462.07	1,291.53	8,652.63	8,599.15	53.48	161.792	
5,800.00	5,444.60	5,508.42	5,381.18	35.27	25.61	132.92	-7,462.50	1,290.37	8,684.26	8,630.07	54.19	160.258	
5,900.00	5,534.88	5,570.29	5,443.02	36.09	25.79	133.06	-7,463.22	1,289.19	8,716.31	8,661.37	54.94	158.644	
6,000.00	5,625.15	5,636.00	5,508.73	36.91	25.98	133.21	-7,464.21	1,288.34	8,748.76	8,693.05	55.71	157.050	
6,100.00	5,715.42	5,896.56	5,769.28	37.74	26.70	133.78	-7,465.62	1,286.98	8,780.35	8,723.26	57.08	153.814	
6,200.00	5,805.69	6,077.49	5,950.18	38.56	27.20	134.17	-7,464.07	1,285.25	8,810.92	8,752.71	58.20	151.380	
6,300.00	5,895.96	6,209.44	6,082.11	39.38	27.56	134.45	-7,461.79	1,285.28	8,840.75	8,781.58	59.17	149.416	
6,400.00	5,986.24	6,295.48	6,168.14	40.20	27.79	134.63	-7,460.22	1,284.92	8,870.62	8,810.63	59.99	147.869	
6,500.00	6,076.51	6,389.81	6,262.45	41.03	28.05	134.83	-7,458.51	1,283.98	8,900.62	8,839.78	60.84	146.299	
6,600.00	6,166.78	6,491.35	6,363.97	41.85	28.33	135.05	-7,456.58	1,283.14	8,930.63	8,868.91	61.71	144.711	
6,700.00	6,257.05	6,561.21	6,433.82	42.67	28.52	135.19	-7,455.26	1,282.77	8,960.75	8,898.27	62.48	143.413	
6,800.00	6,347.33	6,624.43	6,497.03	43.50	28.69	135.32	-7,454.26	1,282.69	8,991.25	8,928.02	63.23	142.207	
6,900.00	6,437.60	6,690.31	6,562.90	44.32	28.87	135.45	-7,453.43	1,282.89	9,022.11	8,958.13	63.98	141.021	
7,000.00	6,527.87	6,789.22	6,661.81	45.15	29.14	135.65	-7,452.26	1,283.38	9,053.13	8,988.30	64.83	139.652	
7,100.00	6,618.14	6,893.90	6,766.47	45.98	29.42	135.85	-7,450.92	1,283.92	9,084.15	9,018.46	65.69	138.279	
7,200.00	6,708.41	7,011.59	6,884.14	46.80	29.74	136.08	-7,449.12	1,284.35	9,115.04	9,048.43	66.61	136.850	
7,300.00	6,798.69	7,091.08	6,963.62	47.63	29.96	136.24	-7,447.80	1,284.51	9,145.90	9,078.50	67.40	135.701	
7,400.00	6,888.96	7,162.44	7,034.98	48.45	30.16	136.38	-7,446.76	1,284.63	9,177.03	9,108.87	68.16	134.636	
7,500.00	6,979.23	7,252.57	7,125.10	49.28	30.41	136.55	-7,445.61	1,284.79	9,208.41	9,139.42	68.99	133.484	
7,600.00	7,069.50	7,374.66	7,247.17	50.11	30.75	136.78	-7,443.79	1,285.55	9,239.66	9,169.75	69.91	132.162	
7,692.09	7,152.63	7,442.69	7,315.19	50.87	30.94	136.91	-7,442.71	1,286.15	9,268.43	9,197.81	70.62	131.246	
7,700.00	7,159.79	7,448.27	7,320.78	50.93	30.95	135.69	-7,442.63	1,286.19	9,270.86	9,200.18	70.68	131.170	
7,750.00	7,205.70	7,484.02	7,356.52	51.32	31.05	126.64	-7,442.13	1,286.44	9,283.84	9,212.78	71.06	130.655	
7,800.00	7,252.52	7,520.38	7,392.87	51.66	31.15	114.92	-7,441.65	1,286.65	9,292.64	9,221.21	71.43	130.090	
7,850.00	7,299.89	7,557.42	7,429.91	51.96	31.25	100.73	-7,441.21	1,286.83	9,297.20	9,225.40	71.80	129.481	
7,900.00	7,347.44	7,605.31	7,477.80	52.20	31.39	85.46	-7,440.66	1,287.04	9,297.47	9,225.27	72.20	128.773	
7,950.00	7,394.83	7,652.98	7,525.46	52.39	31.53	71.23	-7,440.12	1,287.24	9,293.40	9,220.82	72.58	128.043	
8,000.00	7,441.68	7,700.05	7,572.53	52.53	31.66	59.48	-7,439.57	1,287.43	9,285.04	9,212.10	72.94	127.298	
8,050.00	7,487.65	7,746.18	7,618.66	52.62	31.79	50.46	-7,439.04	1,287.62	9,272.44	9,199.16	73.28	126.542	
8,100.00	7,532.37	7,781.93	7,654.40	52.67	31.89	43.70	-7,438.66	1,287.83	9,255.73	9,182.18	73.56	125.832	
8,150.00	7,575.52	7,818.67	7,691.15	52.67	31.99	38.69	-7,438.29	1,288.12	9,235.04	9,161.22	73.82	125.096	
8,200.00	7,616.76	7,853.83	7,726.30	52.63	32.09	34.96	-7,437.96	1,288.47	9,210.53	9,136.46	74.07	124.352	
8,250.00	7,655.77	7,887.13	7,759.60	52.55	32.18	32.20	-7,437.68	1,288.86	9,182.36	9,108.07	74.29	123.600	
8,300.00	7,692.27	7,916.60	7,789.07	52.44	32.27	30.18	-7,437.45	1,289.25	9,150.75	9,076.26	74.48	122.854	
8,350.00	7,725.97	7,941.73	7,814.19	52.29	32.34	28.75	-7,437.28	1,289.61	9,115.94	9,041.29	74.65	122.117	
8,400.00	7,756.62	7,964.60	7,837.06	52.12	32.40	27.85	-7,437.14	1,289.94	9,078.19	9,003.40	74.79	121.376	
8,450.00	7,783.98	7,985.05	7,857.51	51.92	32.45	27.45	-7,437.04	1,290.25	9,037.78	8,962.86	74.92	120.634	
8,500.00	7,807.85	8,002.91	7,875.36	51.70	32.50	27.59	-7,436.96	1,290.53	8,995.00	8,919.98	75.03	119.893	
8,550.00	7,828.05	8,018.03	7,890.48	51.45	32.54	28.40	-7,436.91	1,290.77	8,950.17	8,875.06	75.11	119.153	
8,600.00	7,844.41	8,030.30	7,902.74	51.20	32.58	30.21	-7,436.87	1,290.97	8,903.62	8,828.43	75.19	118.418	
8,650.00	7,856.82	8,039.59	7,912.04	50.93	32.60	33.84	-7,436.84	1,291.13	8,855.70	8,780.45	75.25	117.690	
8,700.00	7,865.18	8,045.84	7,918.29	50.65	32.62	41.75	-7,436.83	1,291.23	8,806.76	8,731.47	75.29	116.970	
8,750.00	7,869.43	8,048.98	7,921.43	50.36	32.63	64.12	-7,436.82	1,291.28	8,757.17	8,681.84	75.32	116.261	
8,776.25	7,870.00	8,049.37	7,921.82	50.21	32.63	92.85	-7,436.82	1,291.29	8,731.00	8,655.66	75.34	115.894	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.00	7,870.00	8,049.33	7,921.78	50.08	32.63	92.84	-7,436.82	1,291.29	8,707.31	8,631.96	75.35	115.564	
8,900.00	7,870.00	8,049.16	7,921.61	49.53	32.63	92.83	-7,436.82	1,291.28	8,607.55	8,532.16	75.39	114.175	
9,000.00	7,870.00	8,048.99	7,921.43	49.01	32.63	92.81	-7,436.82	1,291.28	8,507.79	8,432.36	75.43	112.784	
9,100.00	7,870.00	8,048.81	7,921.26	48.52	32.63	92.79	-7,436.82	1,291.28	8,408.04	8,332.56	75.48	111.392	
9,200.00	7,870.00	8,048.64	7,921.08	48.06	32.63	92.78	-7,436.82	1,291.28	8,308.30	8,232.77	75.53	109.999	
9,300.00	7,870.00	8,048.46	7,920.91	47.63	32.63	92.76	-7,436.82	1,291.27	8,208.57	8,132.98	75.58	108.604	
9,400.00	7,870.00	8,048.28	7,920.73	47.22	32.63	92.74	-7,436.82	1,291.27	8,108.84	8,033.20	75.64	107.209	
9,500.00	7,870.00	8,048.10	7,920.55	46.83	32.63	92.73	-7,436.82	1,291.27	8,009.11	7,933.42	75.69	105.812	
9,600.00	7,870.00	8,047.92	7,920.37	46.48	32.63	92.71	-7,436.82	1,291.26	7,909.40	7,833.65	75.75	104.414	
9,700.00	7,870.00	8,047.74	7,920.19	46.14	32.63	92.69	-7,436.82	1,291.26	7,809.69	7,733.88	75.81	103.014	
9,800.00	7,870.00	8,047.56	7,920.01	45.83	32.63	92.68	-7,436.82	1,291.26	7,709.99	7,634.12	75.88	101.614	
9,900.00	7,870.00	8,047.38	7,919.82	45.54	32.63	92.66	-7,436.82	1,291.26	7,610.30	7,534.36	75.94	100.213	
10,000.00	7,870.00	8,047.19	7,919.64	45.27	32.62	92.64	-7,436.82	1,291.25	7,510.61	7,434.60	76.01	98.810	
10,100.00	7,870.00	8,047.01	7,919.45	45.03	32.62	92.62	-7,436.82	1,291.25	7,410.94	7,334.85	76.08	97.407	
10,200.00	7,870.00	8,046.82	7,919.27	44.82	32.62	92.60	-7,436.82	1,291.25	7,311.27	7,235.11	76.16	96.003	
10,300.00	7,870.00	8,046.63	7,919.08	44.66	32.62	92.59	-7,436.82	1,291.24	7,211.61	7,135.38	76.23	94.597	
10,400.00	7,870.00	8,046.45	7,918.89	44.56	32.62	92.57	-7,436.82	1,291.24	7,111.96	7,035.65	76.32	93.191	
10,500.00	7,870.00	8,046.26	7,918.70	44.58	32.62	92.55	-7,436.82	1,291.24	7,012.32	6,935.92	76.40	91.784	
10,600.00	7,870.00	8,046.06	7,918.51	44.82	32.62	92.53	-7,436.82	1,291.23	6,912.70	6,836.21	76.49	90.377	
10,700.00	7,870.00	8,045.87	7,918.32	45.36	32.62	92.51	-7,436.82	1,291.23	6,813.08	6,736.50	76.58	88.968	
10,800.00	7,870.00	8,045.68	7,918.12	46.15	32.62	92.50	-7,436.83	1,291.23	6,713.47	6,636.80	76.67	87.559	
10,900.00	7,870.00	8,045.48	7,917.93	47.09	32.62	92.48	-7,436.83	1,291.22	6,613.88	6,537.11	76.77	86.149	
11,000.00	7,870.00	8,045.29	7,917.73	48.13	32.62	92.46	-7,436.83	1,291.22	6,514.30	6,437.42	76.87	84.739	
11,100.00	7,870.00	8,045.09	7,917.54	49.22	32.62	92.44	-7,436.83	1,291.22	6,414.73	6,337.75	76.98	83.328	
11,200.00	7,870.00	8,044.89	7,917.34	50.37	32.62	92.42	-7,436.83	1,291.21	6,315.18	6,238.08	77.09	81.916	
11,300.00	7,870.00	8,044.69	7,917.14	51.55	32.62	92.40	-7,436.83	1,291.21	6,215.63	6,138.43	77.21	80.504	
11,400.00	7,870.00	8,044.49	7,916.94	52.76	32.62	92.38	-7,436.83	1,291.21	6,116.11	6,038.78	77.33	79.092	
11,500.00	7,870.00	8,044.29	7,916.74	54.00	32.62	92.36	-7,436.83	1,291.20	6,016.60	5,939.14	77.46	77.679	
11,600.00	7,870.00	8,044.09	7,916.53	55.27	32.62	92.34	-7,436.83	1,291.20	5,917.11	5,839.52	77.59	76.265	
11,700.00	7,870.00	8,043.88	7,916.33	56.56	32.62	92.32	-7,436.83	1,291.20	5,817.63	5,739.91	77.72	74.852	
11,800.00	7,870.00	8,043.68	7,916.12	57.88	32.62	92.30	-7,436.83	1,291.19	5,718.17	5,640.31	77.86	73.438	
11,900.00	7,870.00	8,043.47	7,915.92	59.21	32.61	92.28	-7,436.83	1,291.19	5,618.73	5,540.72	78.01	72.023	
12,000.00	7,870.00	8,043.26	7,915.71	60.57	32.61	92.27	-7,436.83	1,291.19	5,519.32	5,441.15	78.17	70.609	
12,100.00	7,870.00	8,043.05	7,915.50	61.94	32.61	92.25	-7,436.83	1,291.18	5,419.92	5,341.59	78.33	69.194	
12,200.00	7,870.00	8,042.84	7,915.29	63.33	32.61	92.22	-7,436.83	1,291.18	5,320.55	5,242.05	78.50	67.780	
12,300.00	7,870.00	8,042.63	7,915.07	64.74	32.61	92.20	-7,436.83	1,291.18	5,221.19	5,142.52	78.67	66.365	
12,400.00	7,870.00	8,042.41	7,914.86	66.16	32.61	92.18	-7,436.83	1,291.17	5,121.87	5,043.01	78.86	64.950	
12,500.00	7,870.00	8,042.20	7,914.65	67.59	32.61	92.16	-7,436.83	1,291.17	5,022.57	4,943.52	79.05	63.535	
12,600.00	7,870.00	8,041.98	7,914.43	69.04	32.61	92.14	-7,436.83	1,291.17	4,923.30	4,844.05	79.25	62.121	
12,700.00	7,870.00	8,041.76	7,914.21	70.51	32.61	92.12	-7,436.83	1,291.16	4,824.06	4,744.60	79.47	60.706	
12,800.00	7,870.00	8,041.54	7,913.99	71.98	32.61	92.10	-7,436.84	1,291.16	4,724.85	4,645.17	79.69	59.292	
12,900.00	7,870.00	8,041.32	7,913.77	73.47	32.61	92.08	-7,436.84	1,291.15	4,625.68	4,545.76	79.92	57.878	
13,000.00	7,870.00	8,041.10	7,913.55	74.96	32.61	92.06	-7,436.84	1,291.15	4,526.54	4,446.38	80.17	56.465	
13,100.00	7,870.00	8,040.88	7,913.32	76.47	32.61	92.04	-7,436.84	1,291.15	4,427.45	4,347.02	80.42	55.052	
13,200.00	7,870.00	8,040.65	7,913.10	77.99	32.61	92.02	-7,436.84	1,291.14	4,328.39	4,247.70	80.69	53.640	
13,300.00	7,870.00	8,040.42	7,912.87	79.51	32.61	91.99	-7,436.84	1,291.14	4,229.38	4,148.40	80.98	52.228	
13,400.00	7,870.00	8,040.20	7,912.64	81.05	32.61	91.97	-7,436.84	1,291.14	4,130.41	4,049.13	81.28	50.817	
13,500.00	7,870.00	8,039.97	7,912.41	82.59	32.60	91.95	-7,436.84	1,291.13	4,031.50	3,949.90	81.60	49.407	
13,600.00	7,870.00	8,039.73	7,912.18	84.14	32.60	91.93	-7,436.84	1,291.13	3,932.64	3,850.70	81.93	47.998	
13,700.00	7,870.00	8,039.50	7,911.95	85.70	32.60	91.91	-7,436.84	1,291.12	3,833.84	3,751.55	82.29	46.589	
13,800.00	7,870.00	8,039.27	7,911.71	87.26	32.60	91.88	-7,436.84	1,291.12	3,735.10	3,652.44	82.67	45.183	
13,900.00	7,870.00	8,039.03	7,911.48	88.83	32.60	91.86	-7,436.84	1,291.12	3,636.44	3,553.37	83.07	43.777	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	7,870.00	8,038.79	7,911.24	90.41	32.60	91.84	-7,436.84	1,291.11	3,537.84	3,454.35	83.49	42.373	
14,100.00	7,870.00	8,038.55	7,911.00	92.00	32.60	91.82	-7,436.84	1,291.11	3,439.33	3,355.39	83.94	40.971	
14,200.00	7,870.00	8,038.31	7,910.76	93.59	32.60	91.79	-7,436.84	1,291.10	3,340.91	3,256.48	84.43	39.571	
14,300.00	7,870.00	8,038.07	7,910.52	95.18	32.60	91.77	-7,436.84	1,291.10	3,242.59	3,157.64	84.94	38.173	
14,400.00	7,870.00	8,037.82	7,910.27	96.79	32.60	91.75	-7,436.85	1,291.10	3,144.37	3,058.87	85.50	36.778	
14,500.00	7,870.00	8,037.58	7,910.03	98.39	32.60	91.72	-7,436.85	1,291.09	3,046.26	2,960.17	86.09	35.386	
14,600.00	7,870.00	8,037.33	7,909.78	100.00	32.60	91.70	-7,436.85	1,291.09	2,948.28	2,861.56	86.72	33.997	
14,700.00	7,870.00	8,037.08	7,909.53	101.62	32.60	91.67	-7,436.85	1,291.08	2,850.45	2,763.04	87.41	32.611	
14,800.00	7,870.00	8,036.83	7,909.28	103.24	32.60	91.65	-7,436.85	1,291.08	2,752.77	2,664.62	88.14	31.230	
14,900.00	7,870.00	8,036.58	7,909.02	104.87	32.60	91.63	-7,436.85	1,291.08	2,655.26	2,566.32	88.94	29.853	
15,000.00	7,870.00	8,036.32	7,908.77	106.50	32.59	91.60	-7,436.85	1,291.07	2,557.94	2,468.13	89.81	28.482	
15,100.00	7,870.00	8,036.06	7,908.51	108.13	32.59	91.58	-7,436.85	1,291.07	2,460.84	2,370.09	90.75	27.117	
15,200.00	7,870.00	8,035.80	7,908.25	109.77	32.59	91.55	-7,436.85	1,291.06	2,363.98	2,272.21	91.77	25.759	
15,300.00	7,870.00	8,035.54	7,907.99	111.41	32.59	91.53	-7,436.85	1,291.06	2,267.40	2,174.50	92.89	24.408	
15,400.00	7,870.00	8,035.28	7,907.73	113.05	32.59	91.50	-7,436.85	1,291.05	2,171.12	2,077.00	94.12	23.067	
15,500.00	7,870.00	8,035.02	7,907.46	114.70	32.59	91.48	-7,436.85	1,291.05	2,075.19	1,979.72	95.47	21.736	
15,600.00	7,870.00	8,034.75	7,907.20	116.35	32.59	91.45	-7,436.85	1,291.05	1,979.67	1,882.71	96.96	20.417	
15,700.00	7,870.00	8,034.48	7,906.93	118.00	32.59	91.43	-7,436.85	1,291.04	1,884.62	1,786.00	98.61	19.112	
15,800.00	7,870.00	8,034.21	7,906.66	119.66	32.59	91.40	-7,436.85	1,291.04	1,790.10	1,689.65	100.44	17.822	
15,900.00	7,870.00	8,033.94	7,906.39	121.32	32.59	91.37	-7,436.86	1,291.03	1,696.21	1,593.72	102.48	16.551	
16,000.00	7,870.00	8,033.67	7,906.11	122.98	32.59	91.35	-7,436.86	1,291.03	1,603.06	1,498.29	104.77	15.301	
16,100.00	7,870.00	8,033.39	7,905.84	124.65	32.59	91.32	-7,436.86	1,291.02	1,510.78	1,403.45	107.33	14.076	
16,200.00	7,870.00	8,033.11	7,905.56	126.32	32.59	91.30	-7,436.86	1,291.02	1,419.55	1,309.33	110.22	12.879	
16,300.00	7,870.00	8,032.83	7,905.28	127.99	32.59	91.27	-7,436.86	1,291.01	1,329.59	1,216.10	113.49	11.715	
16,400.00	7,870.00	8,032.55	7,905.00	129.66	32.58	91.24	-7,436.86	1,291.01	1,241.16	1,123.97	117.19	10.591	
16,500.00	7,870.00	8,032.26	7,904.71	131.33	32.58	91.21	-7,436.86	1,291.00	1,154.62	1,033.23	121.39	9.512	
16,600.00	7,870.00	8,031.98	7,904.43	133.01	32.58	91.19	-7,436.86	1,291.00	1,070.43	944.27	126.16	8.485	
16,700.00	7,870.00	8,031.69	7,904.14	134.69	32.58	91.16	-7,436.86	1,291.00	989.18	857.63	131.55	7.520	
16,800.00	7,870.00	8,031.40	7,903.85	136.37	32.58	91.13	-7,436.86	1,290.99	911.67	774.07	137.60	6.625	
16,900.00	7,870.00	8,031.11	7,903.55	138.06	32.58	91.10	-7,436.86	1,290.99	838.94	694.64	144.30	5.814	
17,000.00	7,870.00	8,030.81	7,903.26	139.74	32.58	91.08	-7,436.86	1,290.98	772.33	620.82	151.51	5.098	
17,100.00	7,870.00	8,030.51	7,902.96	141.43	32.58	91.05	-7,436.87	1,290.98	713.55	554.64	158.91	4.490	
17,200.00	7,870.00	8,030.21	7,902.66	143.12	32.58	91.02	-7,436.87	1,290.97	664.70	498.77	165.93	4.006	
17,300.00	7,870.00	8,029.91	7,902.36	144.81	32.58	90.99	-7,436.87	1,290.97	628.09	456.43	171.66	3.659	
17,400.00	7,870.00	8,029.61	7,902.05	146.50	32.58	90.96	-7,436.87	1,290.96	605.94	430.93	175.02	3.462	
17,486.66	7,870.00	8,029.34	7,901.79	147.97	32.58	90.94	-7,436.87	1,290.96	599.71	424.40	175.32	3.421	CC, ES, SF
17,500.00	7,870.00	8,029.30	7,901.75	148.19	32.58	90.93	-7,436.87	1,290.96	599.86	424.74	175.12	3.425	
17,600.00	7,870.00	8,028.99	7,901.44	149.89	32.57	90.90	-7,436.87	1,290.95	610.33	438.59	171.74	3.554	
17,700.00	7,870.00	8,028.68	7,901.13	151.59	32.57	90.87	-7,436.87	1,290.95	636.53	471.11	165.42	3.848	
17,800.00	7,870.00	8,028.36	7,900.81	153.29	32.57	90.84	-7,436.87	1,290.94	676.64	519.39	157.24	4.303	
17,900.00	7,870.00	8,028.05	7,900.50	154.99	32.57	90.81	-7,436.87	1,290.94	728.36	580.02	148.34	4.910	
18,000.00	7,870.00	8,027.73	7,900.18	156.69	32.57	90.78	-7,436.87	1,290.93	789.41	649.87	139.54	5.657	
18,100.00	7,870.00	8,027.41	7,899.85	158.39	32.57	90.75	-7,436.87	1,290.93	857.81	726.46	131.35	6.531	
18,200.00	7,870.00	8,027.08	7,899.53	160.09	32.57	90.72	-7,436.88	1,290.92	931.94	807.95	123.99	7.516	
18,300.00	7,870.00	8,026.75	7,899.20	161.80	32.57	90.69	-7,436.88	1,290.91	1,010.53	893.01	117.52	8.599	
18,400.00	7,870.00	8,026.42	7,898.87	163.51	32.57	90.66	-7,436.88	1,290.91	1,092.63	980.74	111.89	9.765	
18,455.45	7,870.00	8,026.24	7,898.69	164.45	32.57	90.64	-7,436.88	1,290.91	1,139.39	1,030.28	109.11	10.443	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	69.38	69.37	0.00	0.11	163.06	-7,136.98	2,173.44	7,460.73				
100.00	100.00	124.89	124.87	0.13	0.29	163.07	-7,137.04	2,172.52	7,460.37	7,459.94	0.43	N/A	
105.94	105.94	127.95	127.94	0.16	0.31	163.07	-7,137.05	2,172.47	7,460.37	7,459.91	0.46	N/A	
200.00	200.00	187.76	187.74	0.49	0.52	163.08	-7,137.54	2,171.51	7,460.64	7,459.63	1.01	7,375.156	
300.00	300.00	295.59	295.49	0.85	0.91	163.11	-7,139.16	2,167.73	7,461.05	7,459.29	1.76	4,233.550	
400.00	400.00	374.37	374.09	1.21	1.20	163.15	-7,140.96	2,162.79	7,461.45	7,459.04	2.41	3,090.817	
500.00	500.00	440.00	439.46	1.57	1.45	163.19	-7,143.30	2,157.51	7,462.47	7,459.45	3.02	2,469.611	
600.00	600.00	440.00	439.46	1.93	1.45	163.19	-7,143.30	2,157.51	7,464.25	7,460.86	3.38	2,208.005	
700.00	700.00	484.08	483.30	2.29	1.63	163.23	-7,145.61	2,153.46	7,466.87	7,462.96	3.91	1,908.562	
800.00	800.00	533.00	531.84	2.64	1.82	163.27	-7,149.18	2,148.55	7,470.69	7,466.23	4.46	1,674.019	
900.00	900.00	533.00	531.84	3.00	1.82	163.27	-7,149.18	2,148.55	7,475.24	7,470.42	4.82	1,550.913	
1,000.00	1,000.00	578.80	577.19	3.36	2.01	163.32	-7,153.26	2,143.61	7,480.78	7,475.42	5.36	1,394.587	
1,100.00	1,100.00	625.00	622.85	3.72	2.21	163.37	-7,157.90	2,138.34	7,487.13	7,481.22	5.91	1,266.903	
1,200.00	1,200.00	657.32	654.73	4.08	2.35	163.40	-7,161.48	2,134.42	7,494.29	7,487.88	6.40	1,170.361	
1,300.00	1,300.00	717.00	713.42	4.44	2.61	163.48	-7,168.88	2,126.52	7,502.35	7,495.33	7.02	1,069.445	
1,400.00	1,399.98	717.00	713.42	4.79	2.61	120.37	-7,168.88	2,126.52	7,512.00	7,504.64	7.37	1,019.921	
1,500.00	1,499.84	758.33	753.89	5.15	2.81	120.22	-7,174.70	2,120.49	7,524.34	7,516.44	7.90	951.852	
1,600.00	1,599.45	809.00	803.25	5.51	3.05	120.07	-7,182.79	2,112.39	7,539.51	7,531.02	8.49	888.086	
1,700.00	1,698.70	809.00	803.25	5.87	3.05	119.76	-7,182.79	2,112.39	7,557.12	7,548.28	8.84	854.791	
1,800.00	1,797.47	809.00	803.25	6.24	3.05	119.39	-7,182.79	2,112.39	7,577.71	7,568.51	9.20	823.925	
1,900.00	1,895.62	856.31	849.09	6.63	3.30	119.11	-7,191.33	2,104.39	7,600.59	7,590.80	9.80	775.892	
2,000.00	1,993.06	898.00	889.29	7.04	3.51	118.78	-7,199.70	2,097.23	7,626.43	7,616.05	10.38	734.749	
2,100.00	2,089.64	898.00	889.29	7.48	3.51	118.26	-7,199.70	2,097.23	7,654.62	7,643.85	10.77	710.754	
2,200.00	2,185.27	898.00	889.29	7.94	3.51	117.69	-7,199.70	2,097.23	7,685.57	7,674.40	11.18	687.595	
2,300.00	2,279.82	950.54	939.76	8.45	3.81	117.27	-7,211.12	2,088.12	7,718.68	7,706.79	11.88	649.545	
2,400.00	2,373.17	976.07	964.22	8.99	3.95	116.70	-7,216.94	2,083.69	7,754.29	7,741.82	12.47	621.824	
2,500.00	2,465.21	1,011.00	997.61	9.58	4.14	116.12	-7,225.20	2,077.61	7,792.24	7,779.11	13.13	593.377	
2,574.08	2,532.50	1,011.00	997.61	10.04	4.14	115.54	-7,225.20	2,077.61	7,821.80	7,808.29	13.51	579.139	
2,600.00	2,555.89	1,011.00	997.61	10.21	4.14	115.54	-7,225.20	2,077.61	7,832.41	7,818.77	13.64	574.227	
2,700.00	2,646.16	1,045.66	1,030.67	10.88	4.35	115.70	-7,233.73	2,071.63	7,873.77	7,859.42	14.35	548.718	
2,800.00	2,736.44	1,067.54	1,051.50	11.57	4.48	115.81	-7,239.28	2,067.91	7,916.00	7,901.00	15.00	527.753	
2,900.00	2,826.71	1,100.00	1,082.35	12.27	4.67	115.96	-7,247.77	2,062.45	7,959.10	7,943.38	15.72	506.314	
3,000.00	2,916.98	1,100.00	1,082.35	13.00	4.67	115.96	-7,247.77	2,062.45	8,002.98	7,986.72	16.27	492.008	
3,100.00	3,007.25	1,136.46	1,116.94	13.73	4.89	116.13	-7,257.62	2,056.46	8,047.63	8,030.62	17.01	472.990	
3,200.00	3,097.52	1,160.60	1,139.82	14.48	5.03	116.25	-7,264.29	2,052.61	8,093.08	8,075.38	17.70	457.275	
3,300.00	3,187.80	1,187.00	1,164.81	15.23	5.19	116.37	-7,271.74	2,048.49	8,139.29	8,120.89	18.40	442.437	
3,400.00	3,278.07	1,187.00	1,164.81	15.99	5.19	116.37	-7,271.74	2,048.49	8,186.33	8,167.38	18.95	432.065	
3,500.00	3,368.34	1,231.78	1,207.08	16.76	5.47	116.58	-7,284.77	2,041.45	8,233.95	8,214.20	19.75	416.954	
3,600.00	3,458.61	1,275.00	1,247.66	17.54	5.75	116.78	-7,297.83	2,034.38	8,282.46	8,261.92	20.54	403.250	
3,700.00	3,548.89	1,275.00	1,247.66	18.32	5.75	116.78	-7,297.83	2,034.38	8,331.54	8,310.46	21.08	395.184	
3,800.00	3,639.16	1,314.08	1,284.24	19.10	6.00	116.96	-7,309.96	2,027.89	8,381.35	8,359.51	21.85	383.603	
3,900.00	3,729.43	1,362.00	1,329.01	19.89	6.32	117.19	-7,325.06	2,019.94	8,431.79	8,409.13	22.66	372.027	
4,000.00	3,819.70	1,395.59	1,360.35	20.69	6.55	117.34	-7,335.77	2,014.32	8,482.75	8,459.35	23.40	362.588	
4,100.00	3,909.98	1,449.00	1,410.10	21.48	6.91	117.59	-7,352.89	2,005.12	8,534.17	8,509.93	24.24	352.075	
4,200.00	4,000.25	1,449.00	1,410.10	22.28	6.91	117.59	-7,352.89	2,005.12	8,586.24	8,561.47	24.76	346.749	
4,300.00	4,090.52	1,493.60	1,451.50	23.08	7.22	117.80	-7,367.48	1,997.22	8,638.79	8,613.24	25.55	338.103	
4,400.00	4,180.79	1,537.00	1,491.60	23.88	7.53	118.00	-7,382.12	1,989.42	8,692.18	8,665.85	26.33	330.153	
4,500.00	4,271.06	1,537.00	1,491.60	24.69	7.53	118.00	-7,382.12	1,989.42	8,746.05	8,719.21	26.83	325.928	
4,600.00	4,361.34	1,537.00	1,491.60	25.49	7.53	118.00	-7,382.12	1,989.42	8,800.72	8,773.39	27.33	321.962	
4,700.00	4,451.61	1,570.73	1,522.62	26.30	7.78	118.16	-7,393.86	1,983.27	8,855.94	8,827.90	28.04	315.823	
4,800.00	4,541.88	1,587.22	1,537.73	27.11	7.90	118.24	-7,399.73	1,980.24	8,911.87	8,883.24	28.63	311.242	
4,900.00	4,632.15	1,624.00	1,571.29	27.92	8.17	118.41	-7,413.14	1,973.43	8,968.55	8,939.20	29.35	305.593	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	1,624.00	1,571.29	28.74	8.17	118.41	-7,413.14	1,973.43	9,025.67	8,995.85	29.82	302.622	
5,100.00	4,812.70	1,624.00	1,571.29	29.55	8.17	118.41	-7,413.14	1,973.43	9,083.54	9,053.24	30.30	299.831	
5,200.00	4,902.97	1,662.24	1,606.03	30.37	8.46	118.59	-7,427.45	1,966.32	9,141.90	9,110.89	31.01	294.841	
5,300.00	4,993.24	1,684.16	1,625.90	31.18	8.63	118.69	-7,435.78	1,962.27	9,200.86	9,169.26	31.61	291.106	
5,400.00	5,083.51	1,711.00	1,650.17	32.00	8.84	118.82	-7,446.11	1,957.32	9,260.38	9,228.15	32.23	287.293	
5,500.00	5,173.79	1,751.17	1,686.43	32.82	9.15	119.01	-7,461.70	1,949.84	9,320.38	9,287.43	32.94	282.915	
5,600.00	5,264.06	1,807.05	1,736.78	33.63	9.59	119.27	-7,483.44	1,939.12	9,380.71	9,346.96	33.75	277.923	
5,700.00	5,354.33	2,226.06	2,117.61	34.45	12.88	121.15	-7,638.36	1,858.48	9,439.19	9,402.24	36.94	255.503	
5,800.00	5,444.60	2,235.00	2,125.78	35.27	12.94	121.19	-7,641.53	1,856.73	9,497.76	9,460.32	37.44	253.673	
5,900.00	5,534.88	2,235.00	2,125.78	36.09	12.94	121.19	-7,641.53	1,856.73	9,557.01	9,519.14	37.87	252.338	
6,000.00	5,625.15	2,279.60	2,166.42	36.91	13.30	121.39	-7,657.65	1,847.86	9,616.51	9,577.91	38.60	249.144	
6,100.00	5,715.42	2,322.00	2,204.76	37.74	13.64	121.58	-7,673.52	1,839.18	9,676.91	9,637.60	39.30	246.216	
6,200.00	5,805.69	2,322.00	2,204.76	38.56	13.64	121.58	-7,673.52	1,839.18	9,737.57	9,697.86	39.72	245.161	
6,300.00	5,895.96	2,366.24	2,244.67	39.38	14.00	121.77	-7,690.31	1,830.12	9,798.85	9,758.42	40.43	242.379	
6,400.00	5,986.24	2,634.31	2,487.78	40.20	16.15	122.92	-7,789.56	1,776.23	9,860.12	9,817.49	42.63	231.303	
6,500.00	6,076.51	2,671.00	2,521.27	41.03	16.44	123.08	-7,802.73	1,769.07	9,920.48	9,877.20	43.28	229.224	
6,600.00	6,166.78	2,701.26	2,548.86	41.85	16.68	123.20	-7,813.67	1,763.21	9,981.27	9,937.39	43.88	227.462	
8,800.00	7,870.00	8,468.14	8,097.27	50.08	43.63	106.66	-8,717.54	1,200.27	9,993.31	9,916.19	77.13	129.572	
8,900.00	7,870.00	8,466.81	8,095.95	49.53	43.62	106.56	-8,717.57	1,200.25	9,893.57	9,816.41	77.17	128.211	
9,000.00	7,870.00	8,465.48	8,094.62	49.01	43.62	106.45	-8,717.59	1,200.22	9,793.84	9,716.63	77.21	126.849	
9,100.00	7,870.00	8,464.14	8,093.28	48.52	43.62	106.35	-8,717.62	1,200.20	9,694.11	9,616.86	77.25	125.486	
9,200.00	7,870.00	8,462.79	8,091.93	48.06	43.62	106.25	-8,717.64	1,200.17	9,594.38	9,517.09	77.30	124.121	
9,300.00	7,870.00	8,461.43	8,090.57	47.63	43.61	106.14	-8,717.67	1,200.15	9,494.66	9,417.32	77.35	122.755	
9,400.00	7,870.00	8,460.06	8,089.20	47.22	43.61	106.04	-8,717.70	1,200.12	9,394.95	9,317.55	77.40	121.387	
9,500.00	7,870.00	8,458.68	8,087.82	46.83	43.61	105.93	-8,717.72	1,200.10	9,295.24	9,217.79	77.45	120.018	
9,600.00	7,870.00	8,457.30	8,086.44	46.48	43.61	105.82	-8,717.75	1,200.07	9,195.54	9,118.04	77.50	118.648	
9,700.00	7,870.00	8,455.90	8,085.04	46.14	43.60	105.71	-8,717.78	1,200.05	9,095.85	9,018.29	77.56	117.277	
9,800.00	7,870.00	8,454.50	8,083.64	45.83	43.60	105.60	-8,717.81	1,200.02	8,996.16	8,918.54	77.62	115.904	
9,900.00	7,870.00	8,453.08	8,082.22	45.54	43.60	105.49	-8,717.84	1,199.99	8,896.47	8,818.80	77.68	114.530	
10,000.00	7,870.00	8,451.66	8,080.80	45.27	43.60	105.38	-8,717.86	1,199.97	8,796.80	8,719.06	77.74	113.155	
10,100.00	7,870.00	8,450.23	8,079.37	45.03	43.59	105.27	-8,717.89	1,199.94	8,697.13	8,619.32	77.81	111.779	
10,200.00	7,870.00	8,448.79	8,077.93	44.82	43.59	105.16	-8,717.92	1,199.91	8,597.47	8,519.59	77.87	110.402	
10,300.00	7,870.00	8,447.33	8,076.48	44.66	43.59	105.04	-8,717.95	1,199.89	8,497.81	8,419.87	77.94	109.024	
10,400.00	7,870.00	8,445.87	8,075.02	44.56	43.58	104.93	-8,717.98	1,199.86	8,398.17	8,320.15	78.02	107.645	
10,500.00	7,870.00	8,433.00	8,062.15	44.58	43.56	103.92	-8,718.25	1,199.62	8,298.54	8,220.48	78.06	106.313	
10,600.00	7,870.00	8,433.00	8,062.15	44.82	43.56	103.92	-8,718.25	1,199.62	8,198.91	8,120.77	78.14	104.926	
10,700.00	7,870.00	8,433.00	8,062.15	45.36	43.56	103.92	-8,718.25	1,199.62	8,099.29	8,021.06	78.23	103.537	
10,800.00	7,870.00	8,433.00	8,062.15	46.15	43.56	103.92	-8,718.25	1,199.62	7,999.67	7,921.36	78.31	102.148	
10,900.00	7,870.00	8,433.00	8,062.15	47.09	43.56	103.92	-8,718.25	1,199.62	7,900.07	7,821.67	78.41	100.758	
11,000.00	7,870.00	8,433.00	8,062.15	48.13	43.56	103.92	-8,718.25	1,199.62	7,800.48	7,721.98	78.50	99.367	
11,100.00	7,870.00	8,433.00	8,062.15	49.22	43.56	103.92	-8,718.25	1,199.62	7,700.90	7,622.30	78.60	97.976	
11,200.00	7,870.00	8,433.00	8,062.15	50.37	43.56	103.92	-8,718.25	1,199.62	7,601.32	7,522.62	78.70	96.584	
11,300.00	7,870.00	8,433.00	8,062.15	51.55	43.56	103.92	-8,718.25	1,199.62	7,501.76	7,422.96	78.81	95.191	
11,400.00	7,870.00	8,433.00	8,062.15	52.76	43.56	103.92	-8,718.25	1,199.62	7,402.22	7,323.30	78.92	93.797	
11,500.00	7,870.00	8,433.00	8,062.15	54.00	43.56	103.92	-8,718.25	1,199.62	7,302.68	7,223.65	79.03	92.403	
11,600.00	7,870.00	8,433.00	8,062.15	55.27	43.56	103.92	-8,718.25	1,199.62	7,203.16	7,124.01	79.15	91.008	
11,700.00	7,870.00	8,433.00	8,062.15	56.56	43.56	103.92	-8,718.25	1,199.62	7,103.65	7,024.38	79.27	89.613	
11,800.00	7,870.00	8,433.00	8,062.15	57.88	43.56	103.92	-8,718.25	1,199.62	7,004.15	6,924.75	79.40	88.218	
11,900.00	7,870.00	8,433.00	8,062.15	59.21	43.56	103.92	-8,718.25	1,199.62	6,904.67	6,825.14	79.53	86.821	
12,000.00	7,870.00	8,433.00	8,062.15	60.57	43.56	103.92	-8,718.25	1,199.62	6,805.20	6,725.54	79.66	85.425	
12,100.00	7,870.00	8,433.00	8,062.15	61.94	43.56	103.92	-8,718.25	1,199.62	6,705.75	6,625.95	79.80	84.028	
12,200.00	7,870.00	8,433.00	8,062.15	63.33	43.56	103.92	-8,718.25	1,199.62	6,606.32	6,526.37	79.95	82.631	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,300.00	7,870.00	8,433.00	8,062.15	64.74	43.56	103.92	-8,718.25	1,199.62	6,506.90	6,426.80	80.10	81.234	
12,400.00	7,870.00	8,433.00	8,062.15	66.16	43.56	103.92	-8,718.25	1,199.62	6,407.50	6,327.25	80.26	79.836	
12,500.00	7,870.00	8,433.00	8,062.15	67.59	43.56	103.92	-8,718.25	1,199.62	6,308.13	6,227.70	80.42	78.438	
12,600.00	7,870.00	8,433.00	8,062.15	69.04	43.56	103.92	-8,718.25	1,199.62	6,208.77	6,128.18	80.59	77.041	
12,700.00	7,870.00	8,433.00	8,062.15	70.51	43.56	103.92	-8,718.25	1,199.62	6,109.43	6,028.66	80.77	75.643	
12,800.00	7,870.00	8,433.00	8,062.15	71.98	43.56	103.92	-8,718.25	1,199.62	6,010.11	5,929.16	80.95	74.245	
12,900.00	7,870.00	8,433.00	8,062.15	73.47	43.56	103.92	-8,718.25	1,199.62	5,910.82	5,829.68	81.14	72.847	
13,000.00	7,870.00	8,433.00	8,062.15	74.96	43.56	103.92	-8,718.25	1,199.62	5,811.55	5,730.21	81.34	71.449	
13,100.00	7,870.00	8,433.00	8,062.15	76.47	43.56	103.92	-8,718.25	1,199.62	5,712.31	5,630.76	81.54	70.051	
13,200.00	7,870.00	8,433.00	8,062.15	77.99	43.56	103.92	-8,718.25	1,199.62	5,613.09	5,531.33	81.76	68.654	
13,300.00	7,870.00	8,433.00	8,062.15	79.51	43.56	103.92	-8,718.25	1,199.62	5,513.90	5,431.92	81.98	67.257	
13,400.00	7,870.00	8,433.00	8,062.15	81.05	43.56	103.92	-8,718.25	1,199.62	5,414.74	5,332.53	82.22	65.860	
13,500.00	7,870.00	8,405.80	8,034.96	82.59	43.51	101.75	-8,718.87	1,199.15	5,315.50	5,233.16	82.33	64.560	
13,600.00	7,870.00	8,404.34	8,033.50	84.14	43.51	101.64	-8,718.91	1,199.12	5,216.39	5,133.81	82.58	63.169	
13,700.00	7,870.00	8,402.86	8,032.02	85.70	43.50	101.52	-8,718.94	1,199.10	5,117.31	5,034.48	82.83	61.777	
13,800.00	7,870.00	8,401.35	8,030.51	87.26	43.50	101.40	-8,718.98	1,199.08	5,018.27	4,935.17	83.10	60.387	
13,900.00	7,870.00	8,399.81	8,028.97	88.83	43.50	101.27	-8,719.02	1,199.05	4,919.27	4,835.89	83.38	58.996	
14,000.00	7,870.00	8,398.24	8,027.41	90.41	43.50	101.15	-8,719.06	1,199.03	4,820.32	4,736.64	83.68	57.607	
14,100.00	7,870.00	8,396.65	8,025.81	92.00	43.49	101.02	-8,719.10	1,199.00	4,721.40	4,637.42	83.98	56.218	
14,200.00	7,870.00	8,395.03	8,024.19	93.59	43.49	100.89	-8,719.15	1,198.98	4,622.53	4,538.22	84.31	54.831	
14,300.00	7,870.00	8,393.37	8,022.54	95.18	43.49	100.75	-8,719.19	1,198.95	4,523.70	4,439.06	84.64	53.444	
14,400.00	7,870.00	8,391.69	8,020.86	96.79	43.48	100.62	-8,719.24	1,198.93	4,424.93	4,339.94	85.00	52.058	
14,500.00	7,870.00	8,389.97	8,019.14	98.39	43.48	100.48	-8,719.28	1,198.90	4,326.22	4,240.85	85.37	50.674	
14,600.00	7,870.00	8,388.22	8,017.39	100.00	43.48	100.34	-8,719.33	1,198.88	4,227.56	4,141.80	85.77	49.291	
14,700.00	7,870.00	8,386.44	8,015.61	101.62	43.47	100.19	-8,719.38	1,198.85	4,128.97	4,042.79	86.18	47.910	
14,800.00	7,870.00	8,384.62	8,013.79	103.24	43.47	100.05	-8,719.43	1,198.82	4,030.45	3,943.83	86.62	46.530	
14,900.00	7,870.00	8,382.77	8,011.94	104.87	43.47	99.90	-8,719.48	1,198.80	3,932.00	3,844.91	87.08	45.152	
15,000.00	7,870.00	8,380.88	8,010.05	106.50	43.46	99.74	-8,719.54	1,198.77	3,833.62	3,746.05	87.57	43.776	
15,100.00	7,870.00	8,378.95	8,008.13	108.13	43.46	99.59	-8,719.59	1,198.74	3,735.34	3,647.24	88.09	42.402	
15,200.00	7,870.00	8,376.99	8,006.16	109.77	43.46	99.43	-8,719.65	1,198.72	3,637.14	3,548.50	88.64	41.031	
15,300.00	7,870.00	8,374.98	8,004.16	111.41	43.45	99.26	-8,719.71	1,198.69	3,539.05	3,449.82	89.23	39.662	
15,400.00	7,870.00	8,372.93	8,002.11	113.05	43.45	99.10	-8,719.77	1,198.66	3,441.06	3,351.20	89.85	38.297	
15,500.00	7,870.00	8,370.84	8,000.02	114.70	43.45	98.93	-8,719.83	1,198.63	3,343.19	3,252.67	90.52	36.934	
15,600.00	7,870.00	8,368.70	7,997.88	116.35	43.44	98.75	-8,719.90	1,198.60	3,245.44	3,154.22	91.23	35.576	
15,700.00	7,870.00	8,366.52	7,995.70	118.00	43.44	98.58	-8,719.96	1,198.58	3,147.84	3,055.85	91.99	34.221	
15,800.00	7,870.00	8,364.29	7,993.48	119.66	43.43	98.39	-8,720.03	1,198.55	3,050.39	2,957.59	92.80	32.871	
15,900.00	7,870.00	8,362.02	7,991.20	121.32	43.43	98.21	-8,720.10	1,198.52	2,953.11	2,859.44	93.67	31.526	
16,000.00	7,870.00	8,359.69	7,988.87	122.98	43.43	98.02	-8,720.18	1,198.49	2,856.01	2,761.40	94.61	30.187	
16,100.00	7,870.00	8,357.31	7,986.50	124.65	43.42	97.82	-8,720.25	1,198.46	2,759.12	2,663.49	95.62	28.854	
16,200.00	7,870.00	8,354.88	7,984.07	126.32	43.42	97.62	-8,720.33	1,198.43	2,662.45	2,565.73	96.72	27.528	
16,300.00	7,870.00	8,352.39	7,981.58	127.99	43.41	97.42	-8,720.42	1,198.40	2,566.04	2,468.13	97.91	26.209	
16,400.00	7,870.00	8,349.85	7,979.04	129.66	43.41	97.21	-8,720.50	1,198.37	2,469.91	2,370.72	99.19	24.900	
16,500.00	7,870.00	8,347.24	7,976.43	131.33	43.40	97.00	-8,720.59	1,198.34	2,374.09	2,273.50	100.60	23.600	
16,600.00	7,870.00	8,344.57	7,973.77	133.01	43.40	96.78	-8,720.68	1,198.31	2,278.64	2,176.51	102.13	22.312	
16,700.00	7,870.00	8,341.84	7,971.04	134.69	43.39	96.55	-8,720.77	1,198.28	2,183.58	2,079.78	103.80	21.036	
16,800.00	7,870.00	8,339.05	7,968.25	136.37	43.39	96.32	-8,720.87	1,198.25	2,088.98	1,983.34	105.64	19.774	
16,900.00	7,870.00	8,336.18	7,965.38	138.06	43.38	96.09	-8,720.97	1,198.22	1,994.90	1,887.23	107.67	18.528	
17,000.00	7,870.00	8,333.25	7,962.45	139.74	43.38	95.85	-8,721.07	1,198.19	1,901.42	1,791.52	109.91	17.301	
17,100.00	7,870.00	8,330.24	7,959.44	141.43	43.37	95.60	-8,721.18	1,198.16	1,808.63	1,696.25	112.39	16.093	
17,200.00	7,870.00	8,327.15	7,956.36	143.12	43.37	95.34	-8,721.29	1,198.13	1,716.65	1,601.51	115.14	14.909	
17,300.00	7,870.00	8,323.99	7,953.20	144.81	43.36	95.08	-8,721.41	1,198.10	1,625.61	1,507.39	118.22	13.750	
17,400.00	7,870.00	8,320.74	7,949.95	146.50	43.36	94.81	-8,721.53	1,198.07	1,535.67	1,414.01	121.67	12.622	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.00	7,870.00	8,317.41	7,946.62	148.19	43.35	94.54	-8,721.66	1,198.04	1,447.05	1,321.52	125.53	11.527	
17,600.00	7,870.00	8,313.98	7,943.20	149.89	43.34	94.25	-8,721.79	1,198.01	1,359.99	1,230.11	129.88	10.471	
17,700.00	7,870.00	8,310.47	7,939.69	151.59	43.34	93.96	-8,721.93	1,197.98	1,274.83	1,140.04	134.79	9.458	
17,800.00	7,870.00	8,306.86	7,936.08	153.29	43.33	93.66	-8,722.07	1,197.95	1,191.96	1,051.64	140.32	8.495	
17,900.00	7,870.00	8,303.14	7,932.37	154.99	43.32	93.36	-8,722.22	1,197.93	1,111.90	965.35	146.55	7.587	
18,000.00	7,870.00	8,299.33	7,928.55	156.69	43.32	93.04	-8,722.38	1,197.90	1,035.30	881.76	153.53	6.743	
18,100.00	7,870.00	8,295.40	7,924.63	158.39	43.31	92.71	-8,722.54	1,197.87	962.98	801.69	161.29	5.970	
18,200.00	7,870.00	8,291.36	7,920.59	160.09	43.30	92.38	-8,722.71	1,197.84	895.99	726.23	169.76	5.278	
18,300.00	7,870.00	8,287.20	7,916.43	161.80	43.29	92.03	-8,722.88	1,197.82	835.59	656.86	178.73	4.675	
18,400.00	7,870.00	8,282.91	7,912.15	163.51	43.29	91.68	-8,723.07	1,197.79	783.33	595.53	187.80	4.171	
18,455.45	7,870.00	8,280.48	7,909.72	164.45	43.28	91.47	-8,723.17	1,197.78	758.47	565.85	192.63	3.938	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	41.10	41.10	0.00	0.06	163.10	-7,154.82	2,173.49	7,477.69				
100.00	100.00	114.26	114.25	0.13	0.25	163.10	-7,154.59	2,173.61	7,477.48	7,477.10	0.38	N/A	
200.00	200.00	166.00	166.00	0.49	0.43	163.10	-7,154.94	2,173.28	7,477.93	7,477.01	0.92	8,109.972	
300.00	300.00	211.50	211.49	0.85	0.59	163.11	-7,155.65	2,172.74	7,479.06	7,477.62	1.44	5,189.970	
400.00	400.00	257.00	256.97	1.21	0.75	163.12	-7,156.71	2,172.08	7,480.89	7,478.93	1.96	3,817.975	
500.00	500.00	299.46	299.40	1.57	0.90	163.13	-7,158.11	2,171.19	7,483.46	7,480.99	2.47	3,028.872	
600.00	600.00	349.00	348.86	1.93	1.08	163.14	-7,160.38	2,169.63	7,486.85	7,483.84	3.01	2,490.029	
700.00	700.00	379.69	379.48	2.29	1.20	163.16	-7,162.12	2,168.40	7,491.01	7,487.53	3.48	2,154.182	
800.00	800.00	440.00	439.57	2.64	1.42	163.19	-7,166.26	2,165.45	7,496.05	7,491.99	4.06	1,847.645	
900.00	900.00	440.00	439.57	3.00	1.42	163.19	-7,166.26	2,165.45	7,501.81	7,497.40	4.41	1,699.554	
1,000.00	1,000.00	487.51	486.85	3.36	1.61	163.21	-7,170.23	2,162.87	7,508.43	7,503.49	4.95	1,517.225	
1,100.00	1,100.00	533.00	532.05	3.72	1.78	163.24	-7,174.65	2,160.43	7,516.05	7,510.58	5.48	1,372.581	
1,200.00	1,200.00	533.00	532.05	4.08	1.78	163.24	-7,174.65	2,160.43	7,524.56	7,518.73	5.83	1,290.714	
1,300.00	1,300.00	593.34	591.90	4.44	2.03	163.28	-7,181.43	2,156.79	7,533.77	7,527.35	6.42	1,173.984	
1,400.00	1,399.98	625.00	623.23	4.79	2.16	120.18	-7,185.39	2,154.56	7,544.75	7,537.86	6.89	1,094.892	
1,500.00	1,499.84	677.80	675.36	5.15	2.39	120.01	-7,192.57	2,150.27	7,558.20	7,550.75	7.45	1,013.937	
1,600.00	1,599.45	717.00	713.96	5.51	2.55	119.79	-7,198.33	2,146.61	7,574.11	7,566.15	7.96	951.105	
1,700.00	1,698.70	754.34	750.64	5.87	2.73	119.53	-7,204.20	2,142.80	7,592.53	7,584.05	8.48	895.827	
1,800.00	1,797.47	809.00	804.14	6.24	2.98	119.28	-7,213.56	2,136.68	7,613.58	7,604.51	9.07	839.597	
1,900.00	1,895.62	809.00	804.14	6.63	2.98	118.86	-7,213.56	2,136.68	7,636.98	7,627.55	9.43	809.614	
2,000.00	1,993.06	850.92	845.02	7.04	3.19	118.51	-7,221.35	2,131.60	7,662.92	7,652.92	10.00	766.275	
2,100.00	2,089.64	898.00	890.75	7.48	3.42	118.14	-7,230.71	2,125.51	7,691.38	7,680.77	10.61	725.140	
2,200.00	2,185.27	898.00	890.75	7.94	3.42	117.56	-7,230.71	2,125.51	7,722.18	7,711.17	11.02	701.002	
2,300.00	2,279.82	898.00	890.75	8.45	3.42	116.93	-7,230.71	2,125.51	7,755.68	7,744.23	11.45	677.584	
2,400.00	2,373.17	948.45	939.56	8.99	3.68	116.44	-7,241.58	2,118.83	7,791.13	7,778.98	12.14	641.625	
2,500.00	2,465.21	986.00	975.76	9.58	3.88	115.86	-7,250.31	2,113.93	7,829.25	7,816.45	12.80	611.433	
2,574.08	2,532.50	986.00	975.76	10.04	3.88	115.28	-7,250.31	2,113.93	7,858.83	7,845.65	13.18	596.266	
2,600.00	2,555.89	986.00	975.76	10.21	3.88	115.28	-7,250.31	2,113.93	7,869.45	7,856.13	13.31	591.038	
2,700.00	2,646.16	1,011.15	999.95	10.88	4.02	115.39	-7,256.40	2,110.74	7,910.95	7,896.99	13.96	566.600	
2,800.00	2,736.44	1,036.00	1,023.83	11.57	4.16	115.50	-7,262.56	2,107.72	7,953.27	7,938.65	14.62	543.958	
2,900.00	2,826.71	1,036.00	1,023.83	12.27	4.16	115.50	-7,262.56	2,107.72	7,996.49	7,981.33	15.16	527.320	
3,000.00	2,916.98	1,082.24	1,068.25	13.00	4.42	115.70	-7,274.36	2,102.60	8,040.30	8,024.36	15.94	504.484	
3,100.00	3,007.25	1,105.66	1,090.73	13.73	4.55	115.80	-7,280.51	2,100.30	8,084.99	8,068.39	16.61	486.880	
3,200.00	3,097.52	1,143.00	1,126.55	14.48	4.76	115.96	-7,290.54	2,097.04	8,130.49	8,113.14	17.35	468.692	
3,300.00	3,187.80	1,166.06	1,148.66	15.23	4.89	116.05	-7,296.82	2,095.19	8,176.64	8,158.62	18.02	453.878	
3,400.00	3,278.07	1,222.51	1,202.76	15.99	5.21	116.28	-7,312.29	2,090.77	8,223.31	8,204.46	18.85	436.285	
3,500.00	3,368.34	1,345.13	1,320.35	16.76	5.91	116.78	-7,345.75	2,081.33	8,270.22	8,250.20	20.01	413.277	
3,600.00	3,458.61	1,509.94	1,478.75	17.54	6.85	117.44	-7,389.20	2,067.74	8,316.41	8,295.02	21.39	388.794	
3,700.00	3,548.89	1,557.25	1,524.21	18.32	7.13	117.63	-7,401.61	2,063.55	8,362.82	8,340.63	22.19	376.951	
3,800.00	3,639.16	1,611.03	1,575.80	19.10	7.44	117.85	-7,415.94	2,058.51	8,409.72	8,386.70	23.01	365.417	
3,900.00	3,729.43	1,673.15	1,635.30	19.89	7.81	118.10	-7,432.67	2,052.32	8,457.02	8,433.13	23.89	354.065	
4,000.00	3,819.70	1,769.49	1,727.54	20.69	8.39	118.49	-7,458.62	2,042.23	8,504.52	8,479.58	24.94	341.051	
4,100.00	3,909.98	1,835.00	1,790.23	21.48	8.78	118.75	-7,476.26	2,035.19	8,552.24	8,526.42	25.83	331.147	
4,200.00	4,000.25	1,923.49	1,874.94	22.28	9.32	119.10	-7,500.05	2,025.73	8,600.18	8,573.35	26.83	320.496	
4,300.00	4,090.52	1,977.49	1,926.66	23.08	9.64	119.31	-7,514.54	2,020.19	8,648.38	8,620.72	27.66	312.710	
4,400.00	4,180.79	4,400.00	2,131.66	23.88	23.74	120.12	-7,570.03	2,000.31	8,696.15	8,656.92	39.22	221.721	
4,500.00	4,271.06	2,245.14	2,183.86	24.69	11.22	120.33	-7,583.89	1,994.35	8,743.73	8,713.61	30.12	290.287	
4,600.00	4,361.34	2,402.25	2,334.50	25.49	12.16	120.95	-7,623.72	1,974.24	8,791.15	8,759.66	31.49	279.163	
4,700.00	4,451.61	2,453.00	2,383.19	26.30	12.46	121.14	-7,636.59	1,968.03	8,838.90	8,806.61	32.29	273.722	
4,800.00	4,541.88	4,800.00	2,516.25	27.11	26.10	121.65	-7,671.26	1,952.90	8,887.00	8,843.43	43.58	203.936	
4,900.00	4,632.15	2,662.79	2,585.09	27.92	13.70	121.92	-7,688.59	1,944.79	8,934.50	8,900.06	34.44	259.392	
5,000.00	4,722.43	2,685.87	2,607.27	28.74	13.83	122.00	-7,694.33	1,941.99	8,982.62	8,947.53	35.09	256.016	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	2,714.00	2,634.25	29.55	14.00	122.11	-7,701.51	1,938.51	9,031.40	8,995.65	35.75	252.627	
5,200.00	4,902.97	2,818.86	2,734.84	30.37	14.63	122.50	-7,728.37	1,926.05	9,080.60	9,043.78	36.82	246.609	
5,300.00	4,993.24	5,300.00	2,889.09	31.18	29.12	123.07	-7,767.82	1,907.85	9,129.05	9,080.32	48.73	187.350	
5,400.00	5,083.51	3,010.88	2,919.69	32.00	15.75	123.18	-7,775.60	1,904.36	9,177.84	9,138.99	38.85	236.238	
5,500.00	5,173.79	3,037.55	2,945.37	32.82	15.91	123.28	-7,782.27	1,901.61	9,227.24	9,187.75	39.49	233.664	
5,600.00	5,264.06	3,064.57	2,971.36	33.63	16.07	123.37	-7,789.16	1,899.00	9,277.25	9,237.12	40.13	231.203	
5,700.00	5,354.33	3,137.49	3,041.49	34.45	16.50	123.62	-7,807.95	1,892.20	9,327.64	9,286.64	41.00	227.501	
5,800.00	5,444.60	3,209.22	3,110.44	35.27	16.92	123.86	-7,826.46	1,885.25	9,378.25	9,336.38	41.87	223.995	
5,900.00	5,534.88	3,274.14	3,172.76	36.09	17.31	124.08	-7,843.30	1,878.32	9,429.09	9,386.39	42.70	220.835	
6,000.00	5,625.15	3,334.41	3,230.58	36.91	17.67	124.29	-7,859.01	1,871.86	9,480.22	9,436.73	43.50	217.940	
6,100.00	5,715.42	3,391.60	3,285.45	37.74	18.02	124.48	-7,874.01	1,865.89	9,531.67	9,487.39	44.28	215.258	
6,200.00	5,805.69	3,628.90	3,513.68	38.56	19.42	125.25	-7,934.66	1,842.66	9,582.92	9,536.89	46.02	208.221	
6,300.00	5,895.96	3,675.00	3,558.11	39.38	19.68	125.40	-7,946.17	1,838.41	9,633.70	9,586.96	46.74	206.129	
6,400.00	5,986.24	3,703.86	3,585.90	40.20	19.85	125.49	-7,953.49	1,835.81	9,684.92	9,637.57	47.35	204.523	
6,500.00	6,076.51	3,762.00	3,641.88	41.03	20.19	125.67	-7,968.34	1,830.70	9,736.52	9,688.40	48.12	202.323	
6,600.00	6,166.78	3,849.00	3,725.74	41.85	20.69	125.94	-7,990.41	1,823.65	9,788.16	9,739.11	49.04	199.586	
6,700.00	6,257.05	3,904.29	3,779.04	42.67	21.02	126.11	-8,004.45	1,819.29	9,840.01	9,790.22	49.79	197.631	
6,800.00	6,347.33	6,673.51	6,505.78	43.50	32.19	132.94	-8,339.01	1,678.72	9,878.01	9,816.21	61.81	159.824	
6,900.00	6,437.60	6,755.10	6,587.36	44.32	32.37	133.09	-8,337.91	1,679.31	9,907.60	9,844.98	62.62	158.215	
7,000.00	6,527.87	6,840.63	6,672.87	45.15	32.56	133.25	-8,336.81	1,680.17	9,937.33	9,873.88	63.45	156.626	
7,100.00	6,618.14	6,923.36	6,755.60	45.98	32.74	133.40	-8,335.79	1,681.15	9,967.20	9,902.93	64.26	155.099	
7,200.00	6,708.41	6,997.32	6,829.55	46.80	32.91	133.53	-8,334.98	1,681.99	9,997.27	9,932.22	65.06	153.672	
8,400.00	7,756.62	8,400.00	7,705.50	52.12	36.54	23.39	-8,339.65	1,694.56	9,963.09	9,888.27	74.82	133.166	
8,450.00	7,783.98	8,045.22	7,877.27	51.92	35.59	22.91	-8,339.81	1,697.16	9,922.46	9,848.64	73.81	134.428	
8,500.00	7,807.85	8,089.47	7,921.52	51.70	35.70	22.45	-8,339.46	1,697.70	9,879.16	9,805.17	74.00	133.508	
8,550.00	7,828.05	8,126.45	7,958.49	51.45	35.79	22.39	-8,339.09	1,698.13	9,833.83	9,759.68	74.15	132.626	
8,600.00	7,844.41	8,155.96	7,988.00	51.20	35.87	22.87	-8,338.75	1,698.46	9,786.81	9,712.55	74.27	131.782	
8,650.00	7,856.82	8,153.44	7,985.48	50.93	35.86	24.06	-8,338.80	1,698.43	9,738.52	9,664.25	74.28	131.114	
8,700.00	7,865.18	8,160.98	7,993.02	50.65	35.88	27.71	-8,338.72	1,698.51	9,689.29	9,614.98	74.31	130.388	
8,750.00	7,869.43	8,164.56	7,996.60	50.36	35.89	45.90	-8,338.68	1,698.55	9,639.50	9,565.17	74.33	129.685	
8,776.25	7,870.00	8,164.85	7,996.88	50.21	35.89	119.03	-8,338.68	1,698.55	9,613.26	9,538.92	74.33	129.325	
8,800.00	7,870.00	8,164.60	7,996.64	50.08	35.89	118.97	-8,338.68	1,698.55	9,589.52	9,515.18	74.34	129.003	
8,900.00	7,870.00	8,163.57	7,995.61	49.53	35.88	118.73	-8,338.69	1,698.54	9,489.54	9,415.20	74.34	127.646	
9,000.00	7,870.00	8,162.54	7,994.58	49.01	35.88	118.49	-8,338.70	1,698.53	9,389.57	9,315.22	74.35	126.287	
9,100.00	7,870.00	8,161.51	7,993.55	48.52	35.88	118.25	-8,338.71	1,698.52	9,289.59	9,215.23	74.36	124.928	
9,200.00	7,870.00	8,160.48	7,992.52	48.06	35.88	118.00	-8,338.73	1,698.51	9,189.62	9,115.25	74.37	123.567	
9,300.00	7,870.00	8,159.45	7,991.49	47.63	35.87	117.76	-8,338.74	1,698.50	9,089.65	9,015.27	74.38	122.205	
9,400.00	7,870.00	8,158.42	7,990.46	47.22	35.87	117.51	-8,338.75	1,698.49	8,989.68	8,915.28	74.39	120.841	
9,500.00	7,870.00	8,157.39	7,989.42	46.83	35.87	117.26	-8,338.76	1,698.47	8,889.70	8,815.30	74.41	119.477	
9,600.00	7,870.00	8,156.35	7,988.39	46.48	35.87	117.01	-8,338.77	1,698.46	8,789.73	8,715.31	74.42	118.111	
9,700.00	7,870.00	8,155.32	7,987.36	46.14	35.86	116.76	-8,338.78	1,698.45	8,689.76	8,615.33	74.43	116.744	
9,800.00	7,870.00	8,154.28	7,986.32	45.83	35.86	116.51	-8,338.79	1,698.44	8,589.79	8,515.34	74.45	115.377	
9,900.00	7,870.00	8,153.24	7,985.28	45.54	35.86	116.26	-8,338.80	1,698.43	8,489.82	8,415.36	74.47	114.008	
10,000.00	7,870.00	8,152.21	7,984.25	45.27	35.86	116.00	-8,338.81	1,698.42	8,389.85	8,315.37	74.49	112.638	
10,100.00	7,870.00	8,151.17	7,983.21	45.03	35.85	115.75	-8,338.82	1,698.41	8,289.89	8,215.38	74.50	111.267	
10,200.00	7,870.00	8,150.13	7,982.17	44.82	35.85	115.49	-8,338.84	1,698.40	8,189.92	8,115.39	74.52	109.895	
10,300.00	7,870.00	8,149.09	7,981.13	44.66	35.85	115.23	-8,338.85	1,698.39	8,089.95	8,015.40	74.55	108.523	
10,400.00	7,870.00	8,161.90	7,993.94	44.56	35.88	118.34	-8,338.68	1,698.53	7,989.97	7,915.35	74.62	107.076	
10,500.00	7,870.00	8,159.92	7,991.95	44.58	35.88	117.87	-8,338.70	1,698.51	7,890.00	7,815.36	74.64	105.706	
10,600.00	7,870.00	8,157.96	7,990.00	44.82	35.87	117.40	-8,338.73	1,698.49	7,790.04	7,715.38	74.66	104.336	
10,700.00	7,870.00	8,156.03	7,988.07	45.36	35.87	116.94	-8,338.75	1,698.47	7,690.08	7,615.39	74.69	102.965	
10,800.00	7,870.00	8,154.13	7,986.17	46.15	35.86	116.47	-8,338.77	1,698.44	7,590.12	7,515.40	74.71	101.593	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,900.00	7,870.00	8,152.26	7,984.30	47.09	35.86	116.02	-8,338.80	1,698.42	7,490.15	7,415.42	74.74	100.221	
11,000.00	7,870.00	8,150.41	7,982.45	48.13	35.85	115.56	-8,338.82	1,698.40	7,390.19	7,315.43	74.76	98.847	
11,100.00	7,870.00	8,148.59	7,980.63	49.22	35.85	115.11	-8,338.84	1,698.38	7,290.23	7,215.44	74.79	97.473	
11,200.00	7,870.00	8,146.80	7,978.84	50.37	35.84	114.66	-8,338.86	1,698.36	7,190.28	7,115.45	74.82	96.097	
11,300.00	7,870.00	8,145.03	7,977.07	51.55	35.84	114.21	-8,338.88	1,698.34	7,090.32	7,015.46	74.85	94.722	
11,400.00	7,870.00	8,143.29	7,975.33	52.76	35.83	113.77	-8,338.90	1,698.32	6,990.36	6,915.47	74.89	93.345	
11,500.00	7,870.00	8,141.57	7,973.61	54.00	35.83	113.33	-8,338.92	1,698.30	6,890.41	6,815.48	74.92	91.968	
11,600.00	7,870.00	8,139.88	7,971.92	55.27	35.83	112.89	-8,338.94	1,698.29	6,790.45	6,715.49	74.96	90.590	
11,700.00	7,870.00	8,138.21	7,970.25	56.56	35.82	112.46	-8,338.96	1,698.27	6,690.50	6,615.50	75.00	89.212	
11,800.00	7,870.00	8,136.56	7,968.60	57.88	35.82	112.03	-8,338.98	1,698.25	6,590.55	6,515.51	75.03	87.833	
11,900.00	7,870.00	8,134.93	7,966.98	59.21	35.81	111.61	-8,339.00	1,698.23	6,490.59	6,415.52	75.08	86.454	
12,000.00	7,870.00	8,133.33	7,965.37	60.57	35.81	111.18	-8,339.02	1,698.21	6,390.64	6,315.53	75.12	85.074	
12,100.00	7,870.00	8,131.75	7,963.79	61.94	35.80	110.77	-8,339.03	1,698.19	6,290.69	6,215.53	75.16	83.694	
12,200.00	7,870.00	8,130.19	7,962.23	63.33	35.80	110.35	-8,339.05	1,698.18	6,190.75	6,115.54	75.21	82.314	
12,300.00	7,870.00	8,128.65	7,960.69	64.74	35.80	109.94	-8,339.07	1,698.16	6,090.80	6,015.54	75.26	80.933	
12,400.00	7,870.00	8,127.13	7,959.17	66.16	35.79	109.53	-8,339.08	1,698.14	5,990.86	5,915.55	75.31	79.552	
12,500.00	7,870.00	8,125.63	7,957.67	67.59	35.79	109.12	-8,339.10	1,698.12	5,890.91	5,815.55	75.36	78.171	
12,600.00	7,870.00	8,124.15	7,956.19	69.04	35.79	108.72	-8,339.12	1,698.11	5,790.97	5,715.56	75.41	76.789	
12,700.00	7,870.00	8,122.69	7,954.73	70.51	35.78	108.32	-8,339.13	1,698.09	5,691.03	5,615.56	75.47	75.407	
12,800.00	7,870.00	8,121.24	7,953.29	71.98	35.78	107.93	-8,339.15	1,698.07	5,591.10	5,515.57	75.53	74.026	
12,900.00	7,870.00	8,119.82	7,951.86	73.47	35.77	107.53	-8,339.16	1,698.06	5,491.16	5,415.57	75.59	72.644	
13,000.00	7,870.00	8,118.41	7,950.46	74.96	35.77	107.14	-8,339.18	1,698.04	5,391.23	5,315.57	75.65	71.262	
13,100.00	7,870.00	8,117.02	7,949.07	76.47	35.77	106.76	-8,339.19	1,698.03	5,291.30	5,215.58	75.72	69.879	
13,200.00	7,870.00	8,115.65	7,947.70	77.99	35.76	106.38	-8,339.20	1,698.01	5,191.37	5,115.58	75.79	68.497	
13,300.00	7,870.00	8,114.30	7,946.34	79.51	35.76	106.00	-8,339.22	1,697.99	5,091.44	5,015.58	75.86	67.115	
13,400.00	7,870.00	8,112.96	7,945.01	81.05	35.76	105.62	-8,339.23	1,697.98	4,991.52	4,915.58	75.94	65.733	
13,500.00	7,870.00	8,111.64	7,943.68	82.59	35.75	105.25	-8,339.25	1,697.96	4,891.60	4,815.58	76.01	64.351	
13,600.00	7,870.00	8,110.34	7,942.38	84.14	35.75	104.88	-8,339.26	1,697.95	4,791.68	4,715.58	76.09	62.970	
13,700.00	7,870.00	8,109.05	7,941.09	85.70	35.75	104.52	-8,339.27	1,697.93	4,691.76	4,615.58	76.18	61.588	
13,800.00	7,870.00	8,107.77	7,939.82	87.26	35.74	104.15	-8,339.28	1,697.92	4,591.85	4,515.58	76.27	60.207	
13,900.00	7,870.00	8,106.52	7,938.56	88.83	35.74	103.80	-8,339.30	1,697.90	4,491.95	4,415.58	76.36	58.826	
14,000.00	7,870.00	8,105.27	7,937.32	90.41	35.74	103.44	-8,339.31	1,697.89	4,392.04	4,315.59	76.46	57.445	
14,100.00	7,870.00	8,104.04	7,936.09	92.00	35.74	103.09	-8,339.32	1,697.88	4,292.14	4,215.58	76.56	56.064	
14,200.00	7,870.00	8,102.83	7,934.87	93.59	35.73	102.74	-8,339.33	1,697.86	4,192.25	4,115.58	76.66	54.684	
14,300.00	7,870.00	8,101.63	7,933.67	95.18	35.73	102.39	-8,339.34	1,697.85	4,092.36	4,015.58	76.77	53.304	
14,400.00	7,870.00	8,100.44	7,932.49	96.79	35.73	102.05	-8,339.36	1,697.83	3,992.47	3,915.58	76.89	51.925	
14,500.00	7,870.00	8,099.27	7,931.32	98.39	35.72	101.71	-8,339.37	1,697.82	3,892.59	3,815.58	77.01	50.546	
14,600.00	7,870.00	8,098.11	7,930.16	100.00	35.72	101.37	-8,339.38	1,697.81	3,792.72	3,715.58	77.14	49.167	
14,700.00	7,870.00	8,096.97	7,929.01	101.62	35.72	101.04	-8,339.39	1,697.79	3,692.85	3,615.58	77.27	47.789	
14,800.00	7,870.00	8,095.83	7,927.88	103.24	35.71	100.71	-8,339.40	1,697.78	3,593.00	3,515.58	77.42	46.412	
14,900.00	7,870.00	8,094.72	7,926.76	104.87	35.71	100.38	-8,339.41	1,697.77	3,493.14	3,415.58	77.57	45.035	
15,000.00	7,870.00	8,093.61	7,925.65	106.50	35.71	100.06	-8,339.42	1,697.75	3,393.30	3,315.58	77.72	43.658	
15,100.00	7,870.00	8,092.51	7,924.56	108.13	35.71	99.73	-8,339.43	1,697.74	3,293.47	3,215.57	77.89	42.282	
15,200.00	7,870.00	8,091.43	7,923.48	109.77	35.70	99.42	-8,339.44	1,697.73	3,193.64	3,115.57	78.07	40.907	
15,300.00	7,870.00	8,090.36	7,922.41	111.41	35.70	99.10	-8,339.45	1,697.71	3,093.83	3,015.57	78.26	39.533	
15,400.00	7,870.00	8,089.30	7,921.35	113.05	35.70	98.79	-8,339.46	1,697.70	2,994.03	2,915.57	78.46	38.159	
15,500.00	7,870.00	8,088.25	7,920.30	114.70	35.70	98.48	-8,339.47	1,697.69	2,894.24	2,815.57	78.68	36.786	
15,600.00	7,870.00	8,087.22	7,919.27	116.35	35.69	98.17	-8,339.48	1,697.68	2,794.47	2,715.56	78.91	35.414	
15,700.00	7,870.00	8,086.19	7,918.24	118.00	35.69	97.87	-8,339.49	1,697.66	2,694.72	2,615.56	79.16	34.042	
15,800.00	7,870.00	8,085.18	7,917.23	119.66	35.69	97.57	-8,339.50	1,697.65	2,594.98	2,515.55	79.43	32.672	
15,900.00	7,870.00	8,084.18	7,916.22	121.32	35.69	97.27	-8,339.50	1,697.64	2,495.26	2,415.55	79.72	31.302	
16,000.00	7,870.00	8,083.19	7,915.23	122.98	35.68	96.98	-8,339.51	1,697.63	2,395.57	2,315.54	80.03	29.933	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,100.00	7,870.00	8,082.20	7,914.25	124.65	35.68	96.68	-8,339.52	1,697.62	2,295.90	2,215.53	80.37	28.566	
16,200.00	7,870.00	8,081.23	7,913.28	126.32	35.68	96.39	-8,339.53	1,697.60	2,196.26	2,115.52	80.75	27.199	
16,300.00	7,870.00	8,080.27	7,912.32	127.99	35.68	96.11	-8,339.54	1,697.59	2,096.66	2,015.50	81.16	25.834	
16,400.00	7,870.00	8,079.32	7,911.37	129.66	35.67	95.82	-8,339.55	1,697.58	1,997.10	1,915.48	81.62	24.470	
16,500.00	7,870.00	8,078.38	7,910.43	131.33	35.67	95.54	-8,339.55	1,697.57	1,897.58	1,815.46	82.12	23.107	
16,600.00	7,870.00	8,077.45	7,909.50	133.01	35.67	95.26	-8,339.56	1,697.56	1,798.12	1,715.43	82.69	21.746	
16,700.00	7,870.00	8,076.53	7,908.57	134.69	35.67	94.99	-8,339.57	1,697.55	1,698.71	1,615.39	83.33	20.386	
16,800.00	7,870.00	8,075.61	7,907.66	136.37	35.66	94.71	-8,339.58	1,697.54	1,599.38	1,515.34	84.05	19.029	
16,900.00	7,870.00	8,074.71	7,906.76	138.06	35.66	94.44	-8,339.59	1,697.53	1,500.14	1,415.27	84.88	17.675	
17,000.00	7,870.00	8,073.82	7,905.86	139.74	35.66	94.17	-8,339.59	1,697.52	1,401.01	1,315.18	85.83	16.323	
17,100.00	7,870.00	8,072.93	7,904.98	141.43	35.66	93.91	-8,339.60	1,697.50	1,302.01	1,215.06	86.95	14.975	
17,200.00	7,870.00	8,072.05	7,904.10	143.12	35.66	93.64	-8,339.61	1,697.49	1,203.18	1,114.91	88.26	13.632	
17,300.00	7,870.00	8,071.19	7,903.24	144.81	35.65	93.38	-8,339.61	1,697.48	1,104.55	1,014.71	89.84	12.294	
17,400.00	7,870.00	8,070.33	7,902.38	146.50	35.65	93.13	-8,339.62	1,697.47	1,006.19	914.43	91.76	10.965	
17,500.00	7,870.00	8,069.48	7,901.53	148.19	35.65	92.87	-8,339.63	1,697.46	908.19	814.06	94.14	9.648	
17,600.00	7,870.00	8,068.64	7,900.68	149.89	35.65	92.62	-8,339.64	1,697.45	810.69	713.54	97.14	8.346	
17,700.00	7,870.00	8,067.80	7,899.85	151.59	35.64	92.36	-8,339.64	1,697.44	713.86	612.83	101.03	7.066	
17,800.00	7,870.00	8,066.98	7,899.02	153.29	35.64	92.12	-8,339.65	1,697.43	618.05	511.83	106.22	5.818	
17,900.00	7,870.00	8,066.16	7,898.21	154.99	35.64	91.87	-8,339.66	1,697.42	523.81	410.43	113.38	4.620	
18,000.00	7,870.00	8,065.35	7,897.40	156.69	35.64	91.63	-8,339.66	1,697.41	432.17	308.55	123.61	3.496	
18,100.00	7,870.00	8,064.55	7,896.59	158.39	35.64	91.38	-8,339.67	1,697.40	345.19	206.45	138.73	2.488	
18,200.00	7,870.00	8,063.75	7,895.80	160.09	35.63	91.15	-8,339.67	1,697.39	267.47	106.55	160.92	1.662	
18,300.00	7,870.00	8,062.96	7,895.01	161.80	35.63	90.91	-8,339.68	1,697.38	209.58	21.95	187.62	1.117	Level 2
18,388.09	7,870.00	8,062.28	7,894.33	163.30	35.63	90.70	-8,339.69	1,697.37	190.17	-6.58	196.74	0.967	Level 1, CC, ES, SF
18,400.00	7,870.00	8,062.18	7,894.23	163.51	35.63	90.67	-8,339.69	1,697.37	190.54	-5.05	195.59	0.974	Level 1
18,455.45	7,870.00	8,061.76	7,893.80	164.45	35.63	90.54	-8,339.69	1,697.37	201.74	18.73	183.01	1.102	Level 2

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 134-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	20.19	20.19	0.00	0.03	162.95	-7,111.54	2,181.58	7,438.63				
100.00	100.00	111.98	111.98	0.13	0.18	162.94	-7,111.52	2,181.89	7,438.71	7,438.40	0.32	N/A	
200.00	200.00	183.19	183.17	0.49	0.40	162.93	-7,111.36	2,183.08	7,439.01	7,438.12	0.89	8,379.583	
300.00	300.00	226.00	225.93	0.85	0.56	162.92	-7,111.04	2,185.13	7,439.82	7,438.42	1.40	5,308.682	
400.00	400.00	263.08	262.92	1.21	0.70	162.90	-7,110.82	2,187.71	7,441.45	7,439.55	1.90	3,917.186	
500.00	500.00	318.00	317.60	1.57	0.91	162.86	-7,111.01	2,192.85	7,444.25	7,441.79	2.46	3,020.795	
600.00	600.00	318.00	317.60	1.93	0.91	162.86	-7,111.01	2,192.85	7,447.67	7,444.84	2.82	2,637.785	
700.00	700.00	385.91	385.08	2.29	1.17	162.81	-7,111.71	2,200.41	7,451.97	7,448.52	3.45	2,162.376	
800.00	800.00	927.06	914.79	2.64	3.72	161.99	-7,086.67	2,303.63	7,452.26	7,445.91	6.35	1,173.971	
900.00	900.00	979.99	965.71	3.00	4.02	161.88	-7,081.72	2,317.15	7,451.30	7,444.29	7.01	1,063.604	
988.88	988.88	1,027.00	1,010.88	3.32	4.28	161.78	-7,077.56	2,329.54	7,451.08	7,443.49	7.59	981.346	
1,000.00	1,000.00	1,027.00	1,010.88	3.36	4.28	161.78	-7,077.56	2,329.54	7,451.09	7,443.46	7.63	976.213	
1,100.00	1,100.00	1,100.11	1,081.15	3.72	4.70	161.63	-7,071.48	2,348.78	7,451.46	7,443.05	8.41	885.757	
1,200.00	1,200.00	1,193.14	1,170.82	4.08	5.23	161.44	-7,064.20	2,372.42	7,452.11	7,442.81	9.30	801.231	
1,300.00	1,300.00	1,254.94	1,230.37	4.44	5.60	161.31	-7,059.42	2,388.27	7,453.03	7,443.01	10.02	743.759	
1,400.00	1,399.98	1,344.55	1,316.02	4.79	6.14	118.14	-7,052.18	2,413.58	7,455.34	7,444.43	10.92	683.019	
1,500.00	1,499.84	1,446.43	1,413.69	5.15	6.75	117.88	-7,043.99	2,441.39	7,459.13	7,447.25	11.88	627.618	
1,600.00	1,599.45	1,503.49	1,468.45	5.51	7.10	117.69	-7,039.61	2,456.82	7,464.92	7,452.33	12.58	593.178	
1,700.00	1,698.70	1,557.00	1,519.79	5.87	7.42	117.47	-7,035.87	2,471.42	7,473.01	7,459.74	13.27	563.233	
1,800.00	1,797.47	1,680.14	1,637.83	6.24	8.17	117.15	-7,027.25	2,505.44	7,482.89	7,468.50	14.39	520.069	
1,900.00	1,895.62	1,795.21	1,747.90	6.63	8.88	116.84	-7,018.58	2,537.86	7,494.04	7,478.56	15.48	484.086	
2,000.00	1,993.06	1,932.81	1,879.86	7.04	9.72	116.53	-7,008.06	2,575.38	7,506.37	7,489.65	16.72	448.998	
2,100.00	2,089.64	2,041.31	1,984.05	7.48	10.37	116.25	-6,999.71	2,604.45	7,520.05	7,502.26	17.79	422.660	
2,200.00	2,185.27	2,142.17	2,080.97	7.94	10.98	115.96	-6,991.79	2,631.25	7,535.04	7,516.20	18.84	399.869	
2,300.00	2,279.82	2,202.05	2,138.51	8.45	11.34	115.66	-6,987.24	2,647.17	7,551.80	7,532.13	19.68	383.774	
2,400.00	2,373.17	2,255.00	2,189.34	8.99	11.66	115.34	-6,983.50	2,661.53	7,570.68	7,550.18	20.50	369.264	
2,500.00	2,465.21	2,500.00	2,358.51	9.58	13.19	115.05	-6,969.60	2,711.25	7,590.55	7,567.97	22.58	336.212	
2,574.08	2,532.50	2,465.25	2,390.54	10.04	12.97	114.79	-6,967.00	2,720.22	7,606.11	7,583.33	22.78	333.830	
2,600.00	2,555.89	2,473.52	2,398.47	10.21	13.02	114.80	-6,966.39	2,722.50	7,611.81	7,588.83	22.99	331.121	
2,700.00	2,646.16	2,517.00	2,440.09	10.88	13.29	114.84	-6,963.40	2,734.73	7,634.37	7,610.51	23.86	320.006	
2,800.00	2,736.44	2,547.07	2,468.85	11.57	13.47	114.86	-6,961.53	2,743.33	7,657.66	7,633.01	24.66	310.551	
2,900.00	2,826.71	2,604.00	2,523.36	12.27	13.83	114.91	-6,958.40	2,759.45	7,681.65	7,656.01	25.64	299.559	
3,000.00	2,916.98	2,676.45	2,592.60	13.00	14.29	114.97	-6,954.59	2,780.41	7,706.07	7,679.33	26.75	288.131	
3,100.00	3,007.25	2,814.99	2,725.08	13.73	15.15	115.08	-6,947.09	2,820.23	7,730.37	7,702.08	28.28	273.321	
3,200.00	3,097.52	2,904.12	2,810.40	14.48	15.71	115.15	-6,941.97	2,845.50	7,754.24	7,724.74	29.51	262.806	
3,300.00	3,187.80	2,973.23	2,876.52	15.23	16.14	115.21	-6,938.31	2,865.26	7,778.58	7,747.97	30.61	254.127	
3,400.00	3,278.07	3,182.20	3,076.25	15.99	17.46	115.37	-6,925.00	2,925.25	7,801.65	7,769.01	32.64	238.994	
3,500.00	3,368.34	3,296.42	3,185.40	16.76	18.18	115.46	-6,917.39	2,957.99	7,824.85	7,790.79	34.06	229.728	
3,600.00	3,458.61	3,535.95	3,417.66	17.54	19.51	115.74	-6,902.79	3,014.49	7,847.14	7,811.02	36.12	217.249	
3,700.00	3,548.89	3,659.84	3,539.23	18.32	20.10	115.92	-6,895.82	3,037.25	7,868.07	7,830.65	37.43	210.218	
3,800.00	3,639.16	3,761.15	3,639.25	19.10	20.54	116.10	-6,891.05	3,052.66	7,888.94	7,850.37	38.57	204.538	
3,900.00	3,729.43	3,930.97	3,807.72	19.89	21.20	116.44	-6,884.06	3,072.69	7,909.42	7,869.47	39.95	197.981	
4,000.00	3,819.70	4,016.50	3,892.84	20.69	21.49	116.62	-6,880.96	3,080.47	7,929.59	7,888.64	40.95	193.621	
4,100.00	3,909.98	4,120.27	3,996.26	21.48	21.83	116.86	-6,877.54	3,088.37	7,949.74	7,907.73	42.01	189.240	
4,200.00	4,000.25	4,217.18	4,092.93	22.28	22.14	117.08	-6,874.76	3,094.52	7,970.03	7,927.00	43.03	185.239	
4,300.00	4,090.52	4,329.82	4,205.35	23.08	22.49	117.35	-6,871.56	3,100.70	7,990.21	7,946.12	44.08	181.250	
4,400.00	4,180.79	4,451.79	4,327.12	23.88	22.86	117.65	-6,867.99	3,106.63	8,010.28	7,965.12	45.17	177.352	
4,500.00	4,271.06	4,571.08	4,446.24	24.69	23.21	117.93	-6,864.17	3,112.00	8,030.15	7,983.91	46.24	173.677	
4,600.00	4,361.34	4,674.68	4,549.70	25.49	23.52	118.19	-6,860.74	3,116.11	8,049.89	8,002.64	47.25	170.360	
4,700.00	4,451.61	4,769.61	4,644.52	26.30	23.80	118.42	-6,857.66	3,119.46	8,069.72	8,021.48	48.24	167.290	
4,800.00	4,541.88	4,957.13	4,831.81	27.11	24.35	118.88	-6,850.73	3,125.28	8,089.23	8,039.73	49.50	163.413	
4,900.00	4,632.15	5,059.08	4,933.64	27.92	24.64	119.13	-6,846.35	3,127.94	8,108.16	8,057.66	50.50	160.558	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 134-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	5,158.57	5,033.02	28.74	24.93	119.38	-6,842.17	3,129.89	8,127.15	8,075.66	51.49	157.844	
5,100.00	4,812.70	5,187.87	5,062.30	29.55	25.01	119.45	-6,841.15	3,130.40	8,146.69	8,094.43	52.26	155.881	
5,200.00	4,902.97	5,229.93	5,104.33	30.37	25.12	119.56	-6,839.87	3,131.09	8,166.91	8,113.85	53.07	153.890	
5,300.00	4,993.24	5,310.00	5,184.37	31.18	25.35	119.76	-6,838.19	3,132.33	8,188.04	8,134.05	53.99	151.667	
5,400.00	5,083.51	5,310.00	5,184.37	32.00	25.35	119.76	-6,838.19	3,132.33	8,209.47	8,154.81	54.66	150.193	
5,500.00	5,173.79	5,356.35	5,230.71	32.82	25.47	119.88	-6,837.65	3,133.03	8,231.78	8,176.32	55.46	148.420	
5,600.00	5,264.06	5,398.97	5,273.33	33.63	25.59	119.99	-6,837.42	3,133.69	8,254.78	8,198.53	56.25	146.751	
5,700.00	5,354.33	5,441.43	5,315.78	34.45	25.71	120.10	-6,837.44	3,134.37	8,278.46	8,221.42	57.03	145.153	
5,800.00	5,444.60	5,485.00	5,359.35	35.27	25.82	120.21	-6,837.72	3,135.08	8,302.80	8,244.99	57.81	143.613	
5,900.00	5,534.88	5,575.18	5,449.52	36.09	26.06	120.44	-6,838.61	3,136.40	8,327.56	8,268.84	58.73	141.797	
6,000.00	5,625.15	5,901.26	5,775.56	36.91	26.94	121.28	-6,837.65	3,138.91	8,351.24	8,290.88	60.36	138.355	
6,100.00	5,715.42	5,979.62	5,853.90	37.74	27.15	121.47	-6,836.37	3,139.31	8,373.79	8,312.54	61.25	136.712	
6,200.00	5,805.69	6,068.25	5,942.53	38.56	27.40	121.70	-6,835.04	3,139.74	8,396.59	8,334.42	62.17	135.055	
6,300.00	5,895.96	6,163.07	6,037.34	39.38	27.67	121.94	-6,833.60	3,140.11	8,419.50	8,356.40	63.11	133.412	
6,400.00	5,986.24	6,273.78	6,148.03	40.20	27.98	122.21	-6,831.81	3,140.40	8,442.45	8,378.36	64.09	131.721	
6,500.00	6,076.51	6,388.78	6,263.01	41.03	28.30	122.50	-6,829.67	3,140.50	8,465.29	8,400.20	65.09	130.059	
6,600.00	6,166.78	6,494.46	6,368.67	41.85	28.60	122.76	-6,827.46	3,140.59	8,488.08	8,422.02	66.06	128.499	
6,700.00	6,257.05	6,604.72	6,478.90	42.67	28.91	123.03	-6,824.91	3,140.79	8,510.82	8,443.78	67.04	126.954	
6,800.00	6,347.33	6,716.69	6,590.83	43.50	29.24	123.31	-6,821.99	3,141.27	8,533.48	8,465.45	68.03	125.440	
6,900.00	6,437.60	6,792.35	6,666.46	44.32	29.46	123.49	-6,819.99	3,141.67	8,556.26	8,487.35	68.90	124.175	
7,000.00	6,527.87	6,870.81	6,744.90	45.15	29.69	123.68	-6,818.03	3,142.07	8,579.31	8,509.52	69.79	122.935	
7,100.00	6,618.14	6,941.71	6,815.78	45.98	29.90	123.85	-6,816.40	3,142.40	8,602.67	8,532.03	70.64	121.777	
7,200.00	6,708.41	7,011.21	6,885.26	46.80	30.10	124.01	-6,814.99	3,142.67	8,626.39	8,554.90	71.49	120.665	
7,300.00	6,798.69	7,083.33	6,957.37	47.63	30.31	124.18	-6,813.72	3,142.90	8,650.46	8,578.11	72.34	119.574	
7,400.00	6,888.96	7,160.44	7,034.47	48.45	30.54	124.37	-6,812.48	3,143.24	8,674.83	8,601.61	73.21	118.487	
7,500.00	6,979.23	7,237.81	7,111.83	49.28	30.77	124.55	-6,811.34	3,143.71	8,699.47	8,625.39	74.08	117.432	
7,600.00	7,069.50	7,317.68	7,191.69	50.11	31.01	124.74	-6,810.27	3,144.21	8,724.37	8,649.41	74.96	116.392	
7,692.09	7,152.63	7,391.12	7,265.12	50.87	31.23	124.91	-6,809.39	3,144.62	8,747.51	8,671.75	75.76	115.463	
7,700.00	7,159.79	7,397.44	7,271.44	50.93	31.25	123.74	-6,809.32	3,144.65	8,749.46	8,673.63	75.83	115.384	
7,750.00	7,205.70	7,445.99	7,319.99	51.32	31.40	114.95	-6,808.77	3,144.91	8,759.34	8,683.05	76.29	114.817	
7,800.00	7,252.52	7,497.69	7,371.68	51.66	31.56	103.41	-6,808.15	3,145.24	8,764.98	8,688.23	76.75	114.201	
7,850.00	7,299.89	7,549.97	7,423.96	51.96	31.71	89.29	-6,807.49	3,145.61	8,766.32	8,689.12	77.20	113.556	
7,900.00	7,347.44	7,602.43	7,476.41	52.20	31.87	73.99	-6,806.78	3,146.03	8,763.35	8,685.72	77.63	112.892	
7,950.00	7,394.83	7,641.55	7,515.53	52.39	31.99	59.61	-6,806.28	3,146.35	8,756.14	8,678.16	77.98	112.280	
8,000.00	7,441.68	7,684.08	7,558.05	52.53	32.12	47.63	-6,805.75	3,146.69	8,744.74	8,666.41	78.33	111.641	
8,050.00	7,487.65	7,725.76	7,599.73	52.62	32.25	38.26	-6,805.26	3,147.03	8,729.23	8,650.58	78.64	110.996	
8,100.00	7,532.37	7,766.54	7,640.51	52.67	32.38	31.06	-6,804.79	3,147.36	8,709.72	8,630.79	78.93	110.343	
8,150.00	7,575.52	7,806.52	7,680.48	52.67	32.50	25.46	-6,804.34	3,147.71	8,686.36	8,607.16	79.20	109.682	
8,200.00	7,616.76	7,844.70	7,718.66	52.63	32.62	20.98	-6,803.92	3,148.08	8,659.31	8,579.88	79.43	109.018	
8,250.00	7,655.77	7,880.81	7,754.76	52.55	32.73	17.25	-6,803.53	3,148.45	8,628.77	8,549.14	79.63	108.355	
8,300.00	7,692.27	7,914.56	7,788.51	52.44	32.84	14.00	-6,803.18	3,148.83	8,594.98	8,515.17	79.81	107.692	
8,350.00	7,725.97	7,950.40	7,824.35	52.29	32.95	10.99	-6,802.80	3,149.25	8,558.17	8,478.19	79.98	107.010	
8,400.00	7,756.62	7,986.58	7,860.52	52.12	33.06	8.01	-6,802.39	3,149.69	8,518.60	8,438.48	80.12	106.317	
8,450.00	7,783.98	8,018.74	7,892.67	51.92	33.16	4.80	-6,802.01	3,150.09	8,476.58	8,396.34	80.24	105.637	
8,500.00	7,807.85	8,046.62	7,920.55	51.70	33.25	1.01	-6,801.66	3,150.44	8,432.43	8,352.10	80.33	104.973	
8,550.00	7,828.05	8,070.03	7,943.96	51.45	33.32	-3.96	-6,801.36	3,150.74	8,386.49	8,306.10	80.39	104.325	
8,600.00	7,844.41	8,088.80	7,962.72	51.20	33.38	-11.24	-6,801.11	3,150.98	8,339.12	8,258.70	80.42	103.697	
8,650.00	7,856.82	8,102.79	7,976.71	50.93	33.43	-23.23	-6,800.91	3,151.17	8,290.67	8,210.25	80.42	103.090	
8,700.00	7,865.18	8,111.92	7,985.84	50.65	33.45	-44.62	-6,800.78	3,151.29	8,241.53	8,161.13	80.40	102.506	
8,750.00	7,869.43	8,116.14	7,990.06	50.36	33.47	-77.44	-6,800.72	3,151.34	8,192.08	8,111.72	80.36	101.948	
8,776.25	7,870.00	8,116.37	7,990.29	50.21	33.47	-94.47	-6,800.72	3,151.35	8,166.11	8,085.79	80.32	101.666	
8,800.00	7,870.00	8,115.97	7,989.89	50.08	33.47	-94.45	-6,800.73	3,151.34	8,142.65	8,062.36	80.29	101.414	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 134-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,114.30	7,988.22	49.53	33.46	-94.37	-6,800.75	3,151.32	8,043.88	7,963.72	80.16	100.352	
9,000.00	7,870.00	8,112.62	7,986.54	49.01	33.46	-94.30	-6,800.77	3,151.30	7,945.13	7,865.11	80.02	99.289	
9,100.00	7,870.00	8,110.96	7,984.88	48.52	33.45	-94.22	-6,800.80	3,151.27	7,846.42	7,766.54	79.88	98.224	
9,200.00	7,870.00	8,109.31	7,983.23	48.06	33.45	-94.15	-6,800.82	3,151.25	7,747.74	7,667.99	79.74	97.158	
9,300.00	7,870.00	8,107.66	7,981.58	47.63	33.44	-94.07	-6,800.84	3,151.23	7,649.09	7,569.49	79.60	96.090	
9,400.00	7,870.00	8,106.02	7,979.94	47.22	33.44	-94.00	-6,800.87	3,151.21	7,550.48	7,471.02	79.46	95.021	
9,500.00	7,870.00	8,104.39	7,978.31	46.83	33.43	-93.92	-6,800.89	3,151.19	7,451.90	7,372.58	79.32	93.951	
9,600.00	7,870.00	8,102.77	7,976.69	46.48	33.43	-93.85	-6,800.91	3,151.17	7,353.36	7,274.19	79.17	92.879	
9,700.00	7,870.00	8,101.15	7,975.07	46.14	33.42	-93.78	-6,800.94	3,151.14	7,254.87	7,175.84	79.02	91.806	
9,800.00	7,870.00	8,099.54	7,973.46	45.83	33.42	-93.70	-6,800.96	3,151.12	7,156.41	7,077.53	78.88	90.730	
9,900.00	7,870.00	8,097.94	7,971.86	45.54	33.41	-93.63	-6,800.98	3,151.10	7,058.00	6,979.27	78.73	89.653	
10,000.00	7,870.00	8,096.35	7,970.27	45.27	33.41	-93.56	-6,801.00	3,151.08	6,959.63	6,881.05	78.57	88.575	
10,100.00	7,870.00	8,094.76	7,968.69	45.03	33.40	-93.49	-6,801.02	3,151.06	6,861.30	6,782.88	78.42	87.494	
10,200.00	7,870.00	8,093.18	7,967.11	44.82	33.40	-93.42	-6,801.05	3,151.04	6,763.03	6,684.77	78.27	86.412	
10,300.00	7,870.00	8,091.61	7,965.54	44.66	33.39	-93.34	-6,801.07	3,151.02	6,664.81	6,586.70	78.11	85.327	
10,400.00	7,870.00	8,090.05	7,963.97	44.56	33.39	-93.27	-6,801.09	3,151.00	6,566.64	6,488.69	77.95	84.240	
10,500.00	7,870.00	8,088.49	7,962.42	44.58	33.38	-93.20	-6,801.11	3,150.98	6,468.53	6,390.74	77.79	83.151	
10,600.00	7,870.00	8,086.94	7,960.87	44.82	33.38	-93.13	-6,801.13	3,150.96	6,370.47	6,292.84	77.63	82.060	
10,700.00	7,870.00	8,085.40	7,959.32	45.36	33.37	-93.06	-6,801.15	3,150.94	6,272.48	6,195.01	77.47	80.966	
10,800.00	7,870.00	8,083.86	7,957.79	46.15	33.37	-92.99	-6,801.17	3,150.92	6,174.55	6,097.24	77.31	79.870	
10,900.00	7,870.00	8,082.34	7,956.26	47.09	33.36	-92.92	-6,801.19	3,150.90	6,076.69	5,999.55	77.14	78.770	
11,000.00	7,870.00	8,080.82	7,954.74	48.13	33.36	-92.85	-6,801.21	3,150.88	5,978.90	5,901.92	76.98	77.668	
11,100.00	7,870.00	8,079.30	7,953.23	49.22	33.35	-92.79	-6,801.23	3,150.86	5,881.18	5,804.36	76.82	76.562	
11,200.00	7,870.00	8,077.79	7,951.72	50.37	33.35	-92.72	-6,801.25	3,150.84	5,783.54	5,706.89	76.65	75.452	
11,300.00	7,870.00	8,076.29	7,950.22	51.55	33.34	-92.65	-6,801.27	3,150.82	5,685.98	5,609.50	76.49	74.339	
11,400.00	7,870.00	8,074.80	7,948.73	52.76	33.34	-92.58	-6,801.29	3,150.80	5,588.51	5,512.19	76.32	73.222	
11,500.00	7,870.00	8,073.31	7,947.24	54.00	33.33	-92.51	-6,801.31	3,150.78	5,491.13	5,414.97	76.16	72.100	
11,600.00	7,870.00	8,071.83	7,945.76	55.27	33.33	-92.45	-6,801.33	3,150.76	5,393.84	5,317.84	76.00	70.974	
11,700.00	7,870.00	8,070.36	7,944.29	56.56	33.32	-92.38	-6,801.35	3,150.74	5,296.66	5,220.82	75.84	69.842	
11,800.00	7,870.00	8,068.89	7,942.82	57.88	33.32	-92.31	-6,801.37	3,150.72	5,199.58	5,123.90	75.68	68.705	
11,900.00	7,870.00	8,067.43	7,941.36	59.21	33.32	-92.25	-6,801.39	3,150.70	5,102.61	5,027.08	75.52	67.562	
12,000.00	7,870.00	8,065.98	7,939.91	60.57	33.31	-92.18	-6,801.41	3,150.69	5,005.76	4,930.39	75.37	66.413	
12,100.00	7,870.00	8,064.53	7,938.46	61.94	33.31	-92.12	-6,801.43	3,150.67	4,909.04	4,833.81	75.23	65.256	
12,200.00	7,870.00	8,063.09	7,937.02	63.33	33.30	-92.05	-6,801.45	3,150.65	4,812.45	4,737.36	75.09	64.092	
12,300.00	7,870.00	8,061.65	7,935.58	64.74	33.30	-91.98	-6,801.47	3,150.63	4,716.00	4,641.05	74.95	62.920	
12,400.00	7,870.00	8,060.23	7,934.16	66.16	33.29	-91.92	-6,801.49	3,150.61	4,619.71	4,544.88	74.83	61.738	
12,500.00	7,870.00	8,058.80	7,932.73	67.59	33.29	-91.85	-6,801.51	3,150.59	4,523.57	4,448.86	74.71	60.547	
12,600.00	7,870.00	8,057.39	7,931.32	69.04	33.28	-91.79	-6,801.52	3,150.58	4,427.61	4,353.00	74.61	59.345	
12,700.00	7,870.00	8,055.98	7,929.91	70.51	33.28	-91.73	-6,801.54	3,150.56	4,331.82	4,257.31	74.52	58.132	
12,800.00	7,870.00	8,054.58	7,928.51	71.98	33.27	-91.66	-6,801.56	3,150.54	4,236.24	4,161.79	74.44	56.906	
12,900.00	7,870.00	8,053.18	7,927.11	73.47	33.27	-91.60	-6,801.58	3,150.52	4,140.86	4,066.47	74.39	55.666	
13,000.00	7,870.00	8,051.79	7,925.72	74.96	33.27	-91.54	-6,801.60	3,150.50	4,045.70	3,971.35	74.35	54.412	
13,100.00	7,870.00	8,050.40	7,924.33	76.47	33.26	-91.47	-6,801.61	3,150.49	3,950.78	3,876.44	74.34	53.142	
13,200.00	7,870.00	8,049.02	7,922.96	77.99	33.26	-91.41	-6,801.63	3,150.47	3,856.12	3,781.75	74.36	51.856	
13,300.00	7,870.00	8,047.65	7,921.58	79.51	33.25	-91.35	-6,801.65	3,150.45	3,761.73	3,687.32	74.41	50.551	
13,400.00	7,870.00	8,046.28	7,920.22	81.05	33.25	-91.29	-6,801.67	3,150.43	3,667.64	3,593.14	74.50	49.227	
13,500.00	7,870.00	8,044.92	7,918.86	82.59	33.24	-91.22	-6,801.68	3,150.42	3,573.87	3,499.23	74.64	47.883	
13,600.00	7,870.00	8,043.57	7,917.50	84.14	33.24	-91.16	-6,801.70	3,150.40	3,480.45	3,405.63	74.82	46.517	
13,700.00	7,870.00	8,042.22	7,916.15	85.70	33.24	-91.10	-6,801.72	3,150.38	3,387.40	3,312.34	75.06	45.129	
13,800.00	7,870.00	8,040.88	7,914.81	87.26	33.23	-91.04	-6,801.74	3,150.37	3,294.76	3,219.40	75.36	43.719	
13,900.00	7,870.00	8,039.54	7,913.47	88.83	33.23	-90.98	-6,801.75	3,150.35	3,202.56	3,126.82	75.74	42.284	
14,000.00	7,870.00	8,038.21	7,912.14	90.41	33.22	-90.92	-6,801.77	3,150.33	3,110.84	3,034.65	76.20	40.827	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 134-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	8,036.88	7,910.81	92.00	33.22	-90.86	-6,801.79	3,150.31	3,019.65	2,942.90	76.75	39.346	
14,200.00	7,870.00	8,035.56	7,909.49	93.59	33.22	-90.80	-6,801.80	3,150.30	2,929.03	2,851.63	77.40	37.842	
14,300.00	7,870.00	8,034.24	7,908.18	95.18	33.21	-90.74	-6,801.82	3,150.28	2,839.05	2,760.87	78.17	36.318	
14,400.00	7,870.00	8,032.94	7,906.87	96.79	33.21	-90.68	-6,801.84	3,150.26	2,749.75	2,670.68	79.07	34.776	
14,500.00	7,870.00	8,031.63	7,905.57	98.39	33.20	-90.62	-6,801.85	3,150.25	2,661.21	2,581.10	80.12	33.217	
14,600.00	7,870.00	8,030.33	7,904.27	100.00	33.20	-90.56	-6,801.87	3,150.23	2,573.52	2,492.20	81.32	31.647	
14,700.00	7,870.00	8,029.04	7,902.97	101.62	33.19	-90.50	-6,801.88	3,150.22	2,486.75	2,404.05	82.70	30.071	
14,800.00	7,870.00	8,027.75	7,901.69	103.24	33.19	-90.44	-6,801.90	3,150.20	2,401.01	2,316.74	84.27	28.492	
14,900.00	7,870.00	8,026.47	7,900.41	104.87	33.19	-90.38	-6,801.92	3,150.18	2,316.41	2,230.36	86.05	26.920	
15,000.00	7,870.00	8,025.19	7,899.13	106.50	33.18	-90.32	-6,801.93	3,150.17	2,233.09	2,145.03	88.06	25.359	
15,100.00	7,870.00	8,023.92	7,897.86	108.13	33.18	-90.27	-6,801.95	3,150.15	2,151.19	2,060.87	90.31	23.819	
15,200.00	7,870.00	8,022.66	7,896.59	109.77	33.17	-90.21	-6,801.96	3,150.14	2,070.87	1,978.04	92.83	22.307	
15,300.00	7,870.00	8,021.40	7,895.33	111.41	33.17	-90.15	-6,801.98	3,150.12	1,992.34	1,896.71	95.63	20.833	
15,400.00	7,870.00	8,020.14	7,894.08	113.05	33.17	-90.09	-6,801.99	3,150.10	1,915.81	1,817.08	98.73	19.404	
15,500.00	7,870.00	8,018.89	7,892.83	114.70	33.16	-90.04	-6,802.01	3,150.09	1,841.53	1,739.39	102.14	18.030	
15,600.00	7,870.00	8,017.64	7,891.58	116.35	33.16	-89.98	-6,802.02	3,150.07	1,769.78	1,663.92	105.86	16.718	
15,700.00	7,870.00	8,016.40	7,890.34	118.00	33.16	-89.92	-6,802.04	3,150.06	1,700.89	1,590.98	109.91	15.476	
15,800.00	7,870.00	8,015.17	7,889.11	119.66	33.15	-89.87	-6,802.05	3,150.04	1,635.21	1,520.95	114.27	14.310	
15,900.00	7,870.00	8,013.94	7,887.88	121.32	33.15	-89.81	-6,802.07	3,150.03	1,573.15	1,454.23	118.92	13.228	
16,000.00	7,870.00	8,012.72	7,886.65	122.98	33.14	-89.76	-6,802.08	3,150.01	1,515.16	1,391.31	123.85	12.234	
16,100.00	7,870.00	8,011.50	7,885.43	124.65	33.14	-89.70	-6,802.10	3,150.00	1,461.71	1,332.71	128.99	11.332	
16,200.00	7,870.00	8,010.28	7,884.22	126.32	33.14	-89.65	-6,802.11	3,149.98	1,413.32	1,279.03	134.29	10.525	
16,300.00	7,870.00	8,009.07	7,883.01	127.99	33.13	-89.59	-6,802.13	3,149.97	1,370.53	1,230.89	139.64	9.815	
16,400.00	7,870.00	8,007.87	7,881.80	129.66	33.13	-89.54	-6,802.14	3,149.95	1,333.88	1,188.94	144.94	9.203	
16,500.00	7,870.00	8,006.67	7,880.60	131.33	33.12	-89.48	-6,802.16	3,149.94	1,303.88	1,153.82	150.06	8.689	
16,600.00	7,870.00	8,005.47	7,879.41	133.01	33.12	-89.43	-6,802.17	3,149.92	1,281.00	1,126.14	154.86	8.272	
16,700.00	7,870.00	8,004.28	7,878.22	134.69	33.12	-89.37	-6,802.19	3,149.91	1,265.64	1,106.43	159.20	7.950	
16,800.00	7,870.00	8,003.10	7,877.03	136.37	33.11	-89.32	-6,802.20	3,149.89	1,258.06	1,095.09	162.96	7.720	
16,845.69	7,870.00	8,002.56	7,876.49	137.14	33.11	-89.29	-6,802.21	3,149.89	1,257.23	1,092.77	164.46	7.645	CC
16,900.00	7,870.00	8,001.92	7,875.85	138.06	33.11	-89.26	-6,802.21	3,149.88	1,258.40	1,092.36	166.04	7.579	ES
17,000.00	7,870.00	8,000.74	7,874.68	139.74	33.11	-89.21	-6,802.23	3,149.86	1,266.66	1,098.27	168.39	7.522	SF
17,100.00	7,870.00	7,999.57	7,873.51	141.43	33.10	-89.16	-6,802.24	3,149.85	1,282.69	1,112.71	169.98	7.546	
17,200.00	7,870.00	7,998.40	7,872.34	143.12	33.10	-89.10	-6,802.26	3,149.83	1,306.19	1,135.35	170.84	7.645	
17,300.00	7,870.00	7,997.24	7,871.18	144.81	33.09	-89.05	-6,802.27	3,149.82	1,336.78	1,165.74	171.04	7.816	
17,400.00	7,870.00	7,996.08	7,870.02	146.50	33.09	-89.00	-6,802.28	3,149.81	1,373.99	1,203.34	170.65	8.051	
17,500.00	7,870.00	7,994.93	7,868.87	148.19	33.09	-88.95	-6,802.30	3,149.79	1,417.28	1,247.51	169.77	8.348	
17,600.00	7,870.00	7,993.78	7,867.72	149.89	33.08	-88.89	-6,802.31	3,149.78	1,466.13	1,297.63	168.49	8.701	
17,700.00	7,870.00	7,992.64	7,866.58	151.59	33.08	-88.84	-6,802.32	3,149.76	1,519.99	1,353.08	166.91	9.106	
17,800.00	7,870.00	7,991.50	7,865.44	153.29	33.08	-88.79	-6,802.34	3,149.75	1,578.35	1,413.24	165.12	9.559	
17,900.00	7,870.00	7,990.36	7,864.31	154.99	33.07	-88.74	-6,802.35	3,149.73	1,640.74	1,477.57	163.17	10.055	
18,000.00	7,870.00	7,989.23	7,863.18	156.69	33.07	-88.69	-6,802.36	3,149.72	1,706.71	1,545.57	161.14	10.592	
18,100.00	7,870.00	7,988.11	7,862.05	158.39	33.07	-88.64	-6,802.38	3,149.71	1,775.87	1,616.80	159.07	11.164	
18,200.00	7,870.00	7,986.99	7,860.93	160.09	33.06	-88.58	-6,802.39	3,149.69	1,847.84	1,690.86	156.99	11.771	
18,300.00	7,870.00	7,985.87	7,859.81	161.80	33.06	-88.53	-6,802.40	3,149.68	1,922.33	1,767.40	154.93	12.407	
18,400.00	7,870.00	7,984.76	7,858.70	163.51	33.06	-88.48	-6,802.41	3,149.67	1,999.04	1,846.12	152.92	13.072	
18,455.45	7,870.00	7,984.14	7,858.09	164.45	33.05	-88.45	-6,802.42	3,149.66	2,042.45	1,890.62	151.83	13.452	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	163.04	-7,147.60	2,179.61	7,472.58				
100.00	100.00	42.66	42.66	0.13	0.08	163.04	-7,147.70	2,180.07	7,473.19	7,472.99	0.20	N/A	
200.00	200.00	82.21	82.19	0.49	0.17	163.03	-7,147.96	2,181.31	7,474.69	7,474.05	0.64	N/A	
300.00	300.00	159.96	159.88	0.85	0.43	163.01	-7,148.71	2,184.20	7,476.70	7,475.42	1.28	5,863.264	
400.00	400.00	227.00	226.87	1.21	0.67	162.99	-7,149.57	2,186.70	7,479.04	7,477.17	1.88	3,986.158	
500.00	500.00	278.96	278.78	1.57	0.86	162.98	-7,150.51	2,188.72	7,481.94	7,479.52	2.42	3,087.772	
600.00	600.00	318.00	317.77	1.93	1.00	162.97	-7,151.45	2,190.35	7,485.55	7,482.63	2.92	2,561.040	
700.00	700.00	373.03	372.71	2.29	1.21	162.95	-7,153.04	2,193.14	7,489.85	7,486.37	3.48	2,150.852	
800.00	800.00	410.00	409.58	2.64	1.35	162.94	-7,154.23	2,195.50	7,494.88	7,490.91	3.98	1,885.456	
900.00	900.00	410.00	409.58	3.00	1.35	162.94	-7,154.23	2,195.50	7,501.05	7,496.72	4.33	1,731.408	
1,000.00	1,000.00	455.91	455.33	3.36	1.52	162.92	-7,156.28	2,198.78	7,507.87	7,503.01	4.86	1,545.248	
1,100.00	1,100.00	502.00	501.18	3.72	1.70	162.90	-7,159.40	2,202.30	7,516.15	7,510.76	5.38	1,395.884	
1,200.00	1,200.00	502.00	501.18	4.08	1.70	162.90	-7,159.40	2,202.30	7,525.07	7,519.33	5.74	1,311.382	
1,300.00	1,300.00	502.00	501.18	4.44	1.70	162.90	-7,159.40	2,202.30	7,535.30	7,529.21	6.09	1,237.135	
1,400.00	1,399.98	549.05	547.89	4.79	1.89	119.73	-7,163.44	2,206.29	7,547.16	7,540.55	6.62	1,140.288	
1,500.00	1,499.84	594.00	592.40	5.15	2.08	119.47	-7,167.92	2,210.64	7,561.89	7,554.75	7.14	1,059.643	
1,600.00	1,599.45	594.00	592.40	5.51	2.08	119.17	-7,167.92	2,210.64	7,579.09	7,571.61	7.48	1,012.687	
1,700.00	1,698.70	636.59	634.47	5.87	2.26	118.82	-7,172.57	2,215.39	7,598.89	7,590.88	8.00	949.542	
1,800.00	1,797.47	686.00	683.12	6.24	2.47	118.44	-7,178.29	2,221.81	7,621.23	7,612.68	8.55	891.026	
1,900.00	1,895.62	716.89	713.46	6.63	2.62	118.01	-7,181.96	2,226.30	7,645.86	7,636.82	9.05	845.200	
2,000.00	1,993.06	778.00	773.35	7.04	2.90	117.56	-7,189.11	2,236.10	7,672.61	7,662.93	9.68	792.935	
2,100.00	2,089.64	809.32	803.97	7.48	3.05	117.05	-7,192.86	2,241.52	7,701.54	7,691.33	10.20	754.720	
2,200.00	2,185.27	855.00	848.53	7.94	3.27	116.51	-7,198.74	2,249.70	7,732.84	7,722.02	10.81	715.079	
2,300.00	2,279.82	855.00	848.53	8.45	3.27	115.87	-7,198.74	2,249.70	7,766.35	7,755.10	11.25	690.479	
2,400.00	2,373.17	906.40	898.52	8.99	3.54	115.26	-7,205.86	2,259.28	7,801.97	7,790.03	11.94	653.395	
2,500.00	2,465.21	942.00	933.07	9.58	3.72	114.58	-7,211.05	2,266.13	7,839.73	7,827.14	12.59	622.748	
2,574.08	2,532.50	942.00	933.07	10.04	3.72	114.00	-7,211.05	2,266.13	7,869.12	7,856.15	12.97	606.711	
2,600.00	2,555.89	942.00	933.07	10.21	3.72	114.00	-7,211.05	2,266.13	7,879.66	7,866.55	13.11	601.189	
2,700.00	2,646.16	997.53	986.82	10.88	4.02	114.11	-7,219.72	2,277.06	7,920.39	7,906.49	13.90	569.781	
2,800.00	2,736.44	1,036.00	1,023.95	11.57	4.23	114.19	-7,226.18	2,284.77	7,962.03	7,947.40	14.63	544.069	
2,900.00	2,826.71	1,065.96	1,052.83	12.27	4.40	114.25	-7,231.40	2,290.81	8,004.32	7,988.98	15.34	521.928	
3,000.00	2,916.98	3,000.00	1,154.21	13.00	15.40	114.47	-7,249.99	2,311.68	8,046.93	8,022.16	24.77	324.846	
3,100.00	3,007.25	1,238.91	1,219.62	13.73	5.37	114.61	-7,261.79	2,324.95	8,089.35	8,072.02	17.33	466.907	
3,200.00	3,097.52	1,289.00	1,267.78	14.48	5.66	114.71	-7,270.86	2,335.30	8,132.51	8,114.35	18.15	447.956	
3,300.00	3,187.80	1,302.61	1,280.84	15.23	5.74	114.74	-7,273.39	2,338.20	8,176.18	8,157.38	18.80	434.810	
3,400.00	3,278.07	1,356.05	1,332.05	15.99	6.05	114.84	-7,283.45	2,349.67	8,220.43	8,200.77	19.66	418.053	
3,500.00	3,368.34	1,411.61	1,385.24	16.76	6.39	114.95	-7,294.08	2,361.75	8,265.08	8,244.54	20.54	402.396	
3,600.00	3,458.61	1,463.00	1,434.36	17.54	6.70	115.05	-7,304.05	2,373.09	8,310.11	8,288.72	21.40	388.378	
3,700.00	3,548.89	1,496.99	1,466.80	18.32	6.92	115.11	-7,310.80	2,380.67	8,355.66	8,333.50	22.16	377.014	
3,800.00	3,639.16	1,550.00	1,517.26	19.10	7.25	115.21	-7,321.79	2,392.60	8,401.92	8,378.89	23.03	364.765	
3,900.00	3,729.43	1,550.00	1,517.26	19.89	7.25	115.21	-7,321.79	2,392.60	8,448.65	8,425.04	23.61	357.877	
4,000.00	3,819.70	1,606.53	1,570.92	20.69	7.61	115.31	-7,333.94	2,405.57	8,495.93	8,471.43	24.50	346.748	
4,100.00	3,909.98	1,638.00	1,600.74	21.48	7.82	115.36	-7,340.82	2,412.94	8,543.71	8,518.46	25.25	338.352	
4,200.00	4,000.25	1,674.33	1,635.09	22.28	8.06	115.43	-7,348.94	2,421.56	8,592.05	8,566.02	26.03	330.087	
4,300.00	4,090.52	1,725.00	1,682.82	23.08	8.40	115.52	-7,360.73	2,433.78	8,641.10	8,614.21	26.89	321.324	
4,400.00	4,180.79	2,216.48	2,149.54	23.88	11.60	116.35	-7,463.70	2,547.97	8,688.03	8,657.65	30.38	286.025	
4,500.00	4,271.06	2,249.00	2,180.65	24.69	11.81	116.41	-7,469.88	2,555.15	8,733.31	8,702.16	31.14	280.412	
4,600.00	4,361.34	2,304.14	2,233.28	25.49	12.16	116.50	-7,480.55	2,567.66	8,779.00	8,746.95	32.05	273.920	
4,700.00	4,451.61	2,336.00	2,263.60	26.30	12.36	116.55	-7,486.86	2,575.15	8,825.28	8,792.47	32.81	268.953	
4,800.00	4,541.88	2,626.81	2,541.64	27.11	14.20	117.03	-7,543.35	2,638.85	8,870.86	8,835.75	35.11	252.687	
4,900.00	4,632.15	2,660.59	2,574.04	27.92	14.40	117.09	-7,549.69	2,645.99	8,915.78	8,879.90	35.88	248.475	
5,000.00	4,722.43	2,685.00	2,597.41	28.74	14.55	117.13	-7,554.38	2,651.25	8,961.28	8,924.68	36.60	244.849	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	2,744.09	2,653.85	29.55	14.93	117.23	-7,565.90	2,664.42	9,007.21	8,969.68	37.53	240.017	
5,200.00	4,902.97	5,200.00	2,838.17	30.37	30.80	117.51	-7,602.25	2,710.69	9,052.86	9,001.86	51.00	177.516	
5,300.00	4,993.24	3,002.71	2,900.30	31.18	16.60	117.60	-7,614.11	2,726.21	9,098.08	9,057.80	40.28	225.880	
5,400.00	5,083.51	3,035.00	2,931.12	32.00	16.81	117.65	-7,620.18	2,733.68	9,143.73	9,102.68	41.05	222.764	
5,500.00	5,173.79	3,078.52	2,972.63	32.82	17.09	117.71	-7,628.60	2,743.69	9,189.87	9,147.99	41.88	219.429	
5,600.00	5,264.06	3,122.00	3,014.01	33.63	17.37	117.78	-7,637.33	2,753.82	9,236.58	9,193.87	42.71	216.254	
5,700.00	5,354.33	3,122.00	3,014.01	34.45	17.37	117.78	-7,637.33	2,753.82	9,283.87	9,240.61	43.26	214.600	
5,800.00	5,444.60	3,175.04	3,064.37	35.27	17.72	117.86	-7,648.42	2,766.22	9,331.59	9,287.44	44.15	211.372	
5,900.00	5,534.88	3,209.00	3,096.56	36.09	17.95	117.91	-7,655.79	2,774.14	9,379.90	9,334.99	44.91	208.872	
6,000.00	5,625.15	3,209.00	3,096.56	36.91	17.95	117.91	-7,655.79	2,774.14	9,428.86	9,383.42	45.44	207.504	
6,100.00	5,715.42	3,251.97	3,137.18	37.74	18.25	117.97	-7,665.51	2,784.21	9,478.25	9,432.00	46.25	204.930	
6,200.00	5,805.69	3,296.00	3,178.64	38.56	18.55	118.03	-7,676.01	2,794.68	9,528.42	9,481.35	47.07	202.442	
6,300.00	5,895.96	3,632.26	3,495.52	39.38	20.89	118.48	-7,750.23	2,879.12	9,577.76	9,527.86	49.90	191.928	
6,400.00	5,986.24	3,674.53	3,535.41	40.20	21.18	118.53	-7,758.99	2,890.03	9,625.90	9,575.17	50.73	189.764	
6,500.00	6,076.51	3,708.75	3,567.69	41.03	21.42	118.57	-7,766.29	2,898.74	9,674.52	9,623.03	51.49	187.894	
6,600.00	6,166.78	3,733.00	3,590.55	41.85	21.59	118.60	-7,771.59	2,904.84	9,723.64	9,671.46	52.18	186.352	
6,700.00	6,257.05	6,658.20	6,448.84	42.67	34.22	123.88	-8,086.68	3,227.10	9,764.21	9,698.11	66.10	147.718	
6,800.00	6,347.33	6,750.98	6,541.61	43.50	34.41	124.09	-8,085.14	3,226.30	9,788.10	9,721.07	67.03	146.017	
6,900.00	6,437.60	6,829.77	6,620.38	44.32	34.58	124.26	-8,083.87	3,225.81	9,812.20	9,744.26	67.93	144.438	
7,000.00	6,527.87	6,902.58	6,693.18	45.15	34.73	124.41	-8,082.76	3,225.53	9,836.54	9,767.72	68.82	142.934	
7,100.00	6,618.14	6,966.88	6,757.48	45.98	34.88	124.55	-8,081.89	3,225.53	9,861.22	9,791.53	69.68	141.512	
7,200.00	6,708.41	7,031.26	6,821.86	46.80	35.03	124.68	-8,081.16	3,225.79	9,886.26	9,815.71	70.55	140.136	
7,300.00	6,798.69	7,090.95	6,881.54	47.63	35.17	124.81	-8,080.60	3,226.27	9,911.67	9,840.27	71.40	138.814	
7,400.00	6,888.96	7,148.72	6,939.31	48.45	35.32	124.92	-8,080.22	3,226.96	9,937.49	9,865.24	72.25	137.539	
7,500.00	6,979.23	7,225.00	7,015.58	49.28	35.51	125.08	-8,079.96	3,228.22	9,963.75	9,890.60	73.15	136.203	
7,600.00	7,069.50	7,271.13	7,061.70	50.11	35.64	125.17	-8,079.92	3,229.15	9,990.34	9,916.37	73.97	135.061	
8,100.00	7,532.37	7,591.57	7,381.96	52.67	36.55	31.28	-8,081.43	3,239.38	9,986.99	9,909.24	77.76	128.437	
8,150.00	7,575.52	7,621.40	7,411.76	52.67	36.64	25.69	-8,081.76	3,240.81	9,964.94	9,886.93	78.01	127.736	
8,200.00	7,616.76	7,650.03	7,440.35	52.63	36.73	21.23	-8,082.11	3,242.28	9,939.17	9,860.93	78.24	127.039	
8,250.00	7,655.77	7,677.24	7,467.51	52.55	36.82	17.53	-8,082.46	3,243.76	9,909.88	9,831.45	78.43	126.347	
8,300.00	7,692.27	7,702.81	7,493.03	52.44	36.90	14.33	-8,082.82	3,245.23	9,877.28	9,798.67	78.60	125.662	
8,350.00	7,725.97	7,726.54	7,516.72	52.29	36.97	11.40	-8,083.17	3,246.67	9,841.60	9,762.85	78.74	124.986	
8,400.00	7,756.62	7,749.00	7,539.13	52.12	37.04	8.54	-8,083.51	3,248.08	9,803.10	9,724.24	78.86	124.316	
8,450.00	7,783.98	7,788.12	7,578.17	51.92	37.17	5.54	-8,084.11	3,250.54	9,762.04	9,683.03	79.01	123.547	
8,500.00	7,807.85	7,823.65	7,613.63	51.70	37.28	2.08	-8,084.63	3,252.67	9,718.71	9,639.56	79.14	122.801	
8,550.00	7,828.05	7,853.76	7,643.69	51.45	37.37	-2.31	-8,085.04	3,254.40	9,673.43	9,594.20	79.23	122.088	
8,600.00	7,844.41	7,878.27	7,668.16	51.20	37.45	-8.49	-8,085.37	3,255.76	9,626.58	9,547.29	79.29	121.411	
8,650.00	7,856.82	7,897.02	7,686.88	50.93	37.51	-18.27	-8,085.61	3,256.77	9,578.51	9,499.20	79.31	120.770	
8,700.00	7,865.18	7,909.91	7,699.75	50.65	37.55	-35.37	-8,085.78	3,257.44	9,529.60	9,450.30	79.30	120.168	
8,750.00	7,869.43	7,916.87	7,706.70	50.36	37.58	-64.35	-8,085.86	3,257.80	9,480.23	9,400.97	79.26	119.606	
8,776.25	7,870.00	7,918.14	7,707.97	50.21	37.58	-82.35	-8,085.88	3,257.87	9,454.25	9,375.02	79.23	119.327	
8,800.00	7,870.00	7,918.55	7,708.38	50.08	37.58	-82.36	-8,085.88	3,257.89	9,430.76	9,351.57	79.20	119.080	
8,900.00	7,870.00	7,920.25	7,710.08	49.53	37.59	-82.43	-8,085.90	3,257.97	9,331.85	9,252.80	79.06	118.040	
9,000.00	7,870.00	7,921.95	7,711.78	49.01	37.59	-82.50	-8,085.92	3,258.06	9,232.97	9,154.05	78.92	116.998	
9,100.00	7,870.00	7,923.64	7,713.46	48.52	37.60	-82.57	-8,085.95	3,258.15	9,134.11	9,055.33	78.77	115.955	
9,200.00	7,870.00	7,925.32	7,715.14	48.06	37.60	-82.64	-8,085.97	3,258.23	9,035.27	8,956.64	78.63	114.911	
9,300.00	7,870.00	7,926.98	7,716.80	47.63	37.61	-82.71	-8,085.99	3,258.32	8,936.46	8,857.97	78.48	113.865	
9,400.00	7,870.00	7,928.64	7,718.46	47.22	37.61	-82.78	-8,086.01	3,258.40	8,837.67	8,759.34	78.34	112.818	
9,500.00	7,870.00	7,930.30	7,720.11	46.83	37.62	-82.85	-8,086.03	3,258.48	8,738.91	8,660.73	78.19	111.770	
9,600.00	7,870.00	7,931.94	7,721.75	46.48	37.62	-82.92	-8,086.05	3,258.57	8,640.18	8,562.15	78.04	110.720	
9,700.00	7,870.00	7,933.57	7,723.38	46.14	37.63	-82.98	-8,086.07	3,258.65	8,541.48	8,463.60	77.88	109.668	
9,800.00	7,870.00	7,935.19	7,725.00	45.83	37.63	-83.05	-8,086.09	3,258.73	8,442.81	8,365.08	77.73	108.615	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	7,870.00	7,936.81	7,726.62	45.54	37.64	-83.12	-8,086.10	3,258.81	8,344.18	8,266.60	77.58	107.561	
10,000.00	7,870.00	7,938.42	7,728.22	45.27	37.64	-83.19	-8,086.12	3,258.89	8,245.57	8,168.15	77.42	106.504	
10,100.00	7,870.00	7,940.01	7,729.82	45.03	37.65	-83.25	-8,086.14	3,258.97	8,147.00	8,069.74	77.26	105.446	
10,200.00	7,870.00	7,941.60	7,731.40	44.82	37.65	-83.32	-8,086.16	3,259.05	8,048.46	7,971.36	77.10	104.386	
10,300.00	7,870.00	7,943.18	7,732.98	44.66	37.66	-83.38	-8,086.18	3,259.13	7,949.96	7,873.02	76.94	103.323	
10,400.00	7,870.00	7,944.76	7,734.55	44.56	37.66	-83.45	-8,086.20	3,259.20	7,851.50	7,774.72	76.78	102.259	
10,500.00	7,870.00	7,946.32	7,736.11	44.58	37.67	-83.51	-8,086.22	3,259.28	7,753.07	7,676.46	76.62	101.193	
10,600.00	7,870.00	7,947.88	7,737.67	44.82	37.67	-83.58	-8,086.24	3,259.36	7,654.69	7,578.24	76.45	100.124	
10,700.00	7,870.00	7,949.42	7,739.21	45.36	37.68	-83.64	-8,086.25	3,259.43	7,556.35	7,480.06	76.29	99.053	
10,800.00	7,870.00	7,950.96	7,740.75	46.15	37.68	-83.71	-8,086.27	3,259.51	7,458.05	7,381.93	76.12	97.979	
10,900.00	7,870.00	7,952.49	7,742.28	47.09	37.69	-83.77	-8,086.29	3,259.58	7,359.80	7,283.85	75.95	96.903	
11,000.00	7,870.00	7,954.02	7,743.80	48.13	37.69	-83.83	-8,086.31	3,259.66	7,261.60	7,185.82	75.78	95.823	
11,100.00	7,870.00	7,955.53	7,745.32	49.22	37.70	-83.89	-8,086.32	3,259.73	7,163.44	7,087.83	75.61	94.741	
11,200.00	7,870.00	7,957.04	7,746.82	50.37	37.70	-83.96	-8,086.34	3,259.80	7,065.34	6,989.90	75.44	93.655	
11,300.00	7,870.00	7,958.54	7,748.32	51.55	37.71	-84.02	-8,086.36	3,259.87	6,967.29	6,892.02	75.27	92.566	
11,400.00	7,870.00	7,945.05	7,734.85	52.76	37.66	-83.46	-8,086.22	3,259.22	6,869.33	6,794.30	75.03	91.555	
11,500.00	7,870.00	7,946.09	7,735.88	54.00	37.67	-83.50	-8,086.23	3,259.28	6,771.39	6,696.54	74.85	90.461	
11,600.00	7,870.00	7,947.14	7,736.93	55.27	37.67	-83.55	-8,086.25	3,259.33	6,673.52	6,598.84	74.68	89.362	
11,700.00	7,870.00	7,948.19	7,737.98	56.56	37.67	-83.59	-8,086.26	3,259.38	6,575.72	6,501.21	74.51	88.258	
11,800.00	7,870.00	7,949.25	7,739.04	57.88	37.68	-83.63	-8,086.28	3,259.43	6,477.98	6,403.64	74.33	87.150	
11,900.00	7,870.00	7,950.32	7,740.11	59.21	37.68	-83.68	-8,086.29	3,259.49	6,380.31	6,306.15	74.16	86.036	
12,000.00	7,870.00	7,951.40	7,741.19	60.57	37.68	-83.72	-8,086.31	3,259.54	6,282.71	6,208.72	73.99	84.916	
12,100.00	7,870.00	7,952.49	7,742.27	61.94	37.69	-83.77	-8,086.32	3,259.59	6,185.19	6,111.37	73.82	83.791	
12,200.00	7,870.00	7,953.59	7,743.37	63.33	37.69	-83.81	-8,086.34	3,259.65	6,087.75	6,014.10	73.65	82.659	
12,300.00	7,870.00	7,954.69	7,744.47	64.74	37.69	-83.86	-8,086.35	3,259.70	5,990.39	5,916.90	73.48	81.519	
12,400.00	7,870.00	7,955.81	7,745.59	66.16	37.70	-83.91	-8,086.37	3,259.76	5,893.12	5,819.80	73.32	80.372	
12,500.00	7,870.00	7,956.93	7,746.71	67.59	37.70	-83.95	-8,086.38	3,259.81	5,795.94	5,722.78	73.17	79.217	
12,600.00	7,870.00	7,958.07	7,747.84	69.04	37.71	-84.00	-8,086.40	3,259.87	5,698.87	5,625.85	73.01	78.053	
12,700.00	7,870.00	7,959.21	7,748.99	70.51	37.71	-84.05	-8,086.41	3,259.92	5,601.89	5,529.02	72.87	76.880	
12,800.00	7,870.00	7,960.36	7,750.14	71.98	37.71	-84.09	-8,086.43	3,259.98	5,505.02	5,432.30	72.73	75.696	
12,900.00	7,870.00	7,961.53	7,751.30	73.47	37.72	-84.14	-8,086.45	3,260.04	5,408.27	5,335.67	72.59	74.501	
13,000.00	7,870.00	7,962.70	7,752.47	74.96	37.72	-84.19	-8,086.46	3,260.10	5,311.63	5,239.16	72.47	73.295	
13,100.00	7,870.00	7,963.89	7,753.66	76.47	37.72	-84.24	-8,086.48	3,260.15	5,215.13	5,142.77	72.36	72.076	
13,200.00	7,870.00	7,965.08	7,754.85	77.99	37.73	-84.29	-8,086.50	3,260.21	5,118.75	5,046.50	72.25	70.843	
13,300.00	7,870.00	7,966.29	7,756.05	79.51	37.73	-84.34	-8,086.51	3,260.27	5,022.52	4,950.35	72.17	69.596	
13,400.00	7,870.00	7,967.50	7,757.27	81.05	37.73	-84.39	-8,086.53	3,260.33	4,926.44	4,854.34	72.09	68.333	
13,500.00	7,870.00	7,968.73	7,758.49	82.59	37.74	-84.44	-8,086.55	3,260.39	4,830.51	4,758.47	72.04	67.054	
13,600.00	7,870.00	7,969.96	7,759.72	84.14	37.74	-84.49	-8,086.57	3,260.45	4,734.76	4,662.75	72.00	65.757	
13,700.00	7,870.00	7,971.21	7,760.97	85.70	37.75	-84.55	-8,086.59	3,260.51	4,639.18	4,567.19	71.99	64.441	
13,800.00	7,870.00	7,972.47	7,762.23	87.26	37.75	-84.60	-8,086.60	3,260.57	4,543.79	4,471.79	72.00	63.104	
13,900.00	7,870.00	7,973.74	7,763.50	88.83	37.75	-84.65	-8,086.62	3,260.63	4,448.61	4,376.56	72.05	61.747	
14,000.00	7,870.00	7,975.02	7,764.78	90.41	37.76	-84.70	-8,086.64	3,260.69	4,353.64	4,281.52	72.12	60.367	
14,100.00	7,870.00	7,976.31	7,766.07	92.00	37.76	-84.76	-8,086.66	3,260.76	4,258.90	4,186.67	72.23	58.964	
14,200.00	7,870.00	7,977.62	7,767.37	93.59	37.77	-84.81	-8,086.68	3,260.82	4,164.40	4,092.02	72.38	57.537	
14,300.00	7,870.00	7,978.93	7,768.68	95.18	37.77	-84.87	-8,086.70	3,260.88	4,070.17	3,997.60	72.57	56.084	
14,400.00	7,870.00	7,980.26	7,770.01	96.79	37.77	-84.92	-8,086.72	3,260.95	3,976.22	3,903.40	72.82	54.606	
14,500.00	7,870.00	7,981.60	7,771.35	98.39	37.78	-84.98	-8,086.74	3,261.01	3,882.57	3,809.45	73.12	53.101	
14,600.00	7,870.00	7,982.96	7,772.70	100.00	37.78	-85.03	-8,086.76	3,261.07	3,789.25	3,715.77	73.48	51.569	
14,700.00	7,870.00	7,984.32	7,774.07	101.62	37.79	-85.09	-8,086.78	3,261.14	3,696.27	3,622.36	73.91	50.011	
14,800.00	7,870.00	7,985.70	7,775.44	103.24	37.79	-85.15	-8,086.80	3,261.21	3,603.67	3,529.26	74.41	48.427	
14,900.00	7,870.00	7,987.09	7,776.83	104.87	37.80	-85.20	-8,086.83	3,261.27	3,511.47	3,436.47	75.00	46.817	
15,000.00	7,870.00	7,988.50	7,778.23	106.50	37.80	-85.26	-8,086.85	3,261.34	3,419.72	3,344.03	75.68	45.184	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,100.00	7,870.00	7,989.91	7,779.65	108.13	37.81	-85.32	-8,086.87	3,261.41	3,328.43	3,251.97	76.47	43.529	
15,200.00	7,870.00	7,991.34	7,781.08	109.77	37.81	-85.38	-8,086.89	3,261.47	3,237.67	3,160.31	77.36	41.854	
15,300.00	7,870.00	7,992.79	7,782.52	111.41	37.81	-85.44	-8,086.91	3,261.54	3,147.46	3,069.09	78.37	40.162	
15,400.00	7,870.00	7,994.25	7,783.98	113.05	37.82	-85.50	-8,086.94	3,261.61	3,057.86	2,978.34	79.51	38.458	
15,500.00	7,870.00	7,995.72	7,785.45	114.70	37.82	-85.56	-8,086.96	3,261.68	2,968.92	2,888.12	80.80	36.746	
15,600.00	7,870.00	7,997.21	7,786.93	116.35	37.83	-85.63	-8,086.98	3,261.75	2,880.70	2,798.47	82.24	35.030	
15,700.00	7,870.00	7,998.71	7,788.43	118.00	37.83	-85.69	-8,087.01	3,261.82	2,793.28	2,709.44	83.84	33.316	
15,800.00	7,870.00	8,000.22	7,789.95	119.66	37.84	-85.75	-8,087.03	3,261.89	2,706.73	2,621.10	85.63	31.609	
15,900.00	7,870.00	8,001.75	7,791.48	121.32	37.84	-85.81	-8,087.06	3,261.97	2,621.14	2,533.53	87.61	29.917	
16,000.00	7,870.00	8,003.30	7,793.02	122.98	37.85	-85.88	-8,087.08	3,262.04	2,536.60	2,446.79	89.81	28.245	
16,100.00	7,870.00	8,004.86	7,794.58	124.65	37.85	-85.94	-8,087.11	3,262.11	2,453.23	2,361.00	92.23	26.600	
16,200.00	7,870.00	8,006.44	7,796.15	126.32	37.86	-86.01	-8,087.13	3,262.19	2,371.13	2,276.25	94.89	24.989	
16,300.00	7,870.00	8,008.03	7,797.75	127.99	37.86	-86.08	-8,087.16	3,262.26	2,290.46	2,192.66	97.80	23.419	
16,400.00	7,870.00	8,009.64	7,799.35	129.66	37.87	-86.14	-8,087.19	3,262.33	2,211.37	2,110.38	101.00	21.896	
16,500.00	7,870.00	8,011.26	7,800.97	131.33	37.87	-86.21	-8,087.21	3,262.41	2,134.04	2,029.56	104.48	20.426	
16,600.00	7,870.00	8,012.91	7,802.61	133.01	37.88	-86.28	-8,087.24	3,262.49	2,058.65	1,950.39	108.26	19.016	
16,700.00	7,870.00	8,014.56	7,804.27	134.69	37.88	-86.35	-8,087.27	3,262.56	1,985.44	1,873.08	112.36	17.670	
16,800.00	7,870.00	8,016.24	7,805.94	136.37	37.89	-86.42	-8,087.30	3,262.64	1,914.65	1,797.87	116.79	16.394	
16,900.00	7,870.00	8,017.93	7,807.63	138.06	37.89	-86.49	-8,087.33	3,262.72	1,846.57	1,725.02	121.55	15.192	
17,000.00	7,870.00	8,019.64	7,809.34	139.74	37.90	-86.56	-8,087.36	3,262.80	1,781.50	1,654.86	126.63	14.068	
17,100.00	7,870.00	8,021.37	7,811.07	141.43	37.90	-86.63	-8,087.39	3,262.88	1,719.78	1,587.74	132.04	13.025	
17,200.00	7,870.00	8,023.11	7,812.81	143.12	37.91	-86.70	-8,087.42	3,262.96	1,661.79	1,524.05	137.74	12.065	
17,300.00	7,870.00	8,024.88	7,814.57	144.81	37.91	-86.78	-8,087.45	3,263.04	1,607.93	1,464.23	143.70	11.189	
17,400.00	7,870.00	8,026.66	7,816.35	146.50	37.92	-86.85	-8,087.48	3,263.12	1,558.63	1,408.77	149.86	10.400	
17,500.00	7,870.00	8,028.46	7,818.15	148.19	37.93	-86.93	-8,087.51	3,263.20	1,514.34	1,358.19	156.15	9.698	
17,600.00	7,870.00	8,030.29	7,819.97	149.89	37.93	-87.00	-8,087.54	3,263.28	1,475.50	1,313.03	162.46	9.082	
17,700.00	7,870.00	8,032.13	7,821.81	151.59	37.94	-87.08	-8,087.57	3,263.37	1,442.55	1,273.87	168.69	8.552	
17,800.00	7,870.00	8,033.99	7,823.67	153.29	37.94	-87.16	-8,087.61	3,263.45	1,415.92	1,241.24	174.68	8.106	
17,900.00	7,870.00	8,035.87	7,825.55	154.99	37.95	-87.23	-8,087.64	3,263.54	1,395.95	1,215.64	180.31	7.742	
18,000.00	7,870.00	8,037.77	7,827.45	156.69	37.96	-87.31	-8,087.68	3,263.62	1,382.94	1,197.52	185.42	7.458	
18,100.00	7,870.00	8,039.69	7,829.37	158.39	37.96	-87.39	-8,087.71	3,263.71	1,377.09	1,187.19	189.90	7.252	
18,130.81	7,870.00	8,040.29	7,829.97	158.92	37.96	-87.42	-8,087.72	3,263.74	1,376.74	1,185.61	191.13	7.203	CC
18,200.00	7,870.00	8,041.64	7,831.31	160.09	37.97	-87.47	-8,087.75	3,263.80	1,378.48	1,184.85	193.63	7.119	ES
18,300.00	7,870.00	8,043.60	7,833.27	161.80	37.97	-87.56	-8,087.78	3,263.89	1,387.10	1,190.55	196.55	7.057	SF
18,400.00	7,870.00	8,045.59	7,835.26	163.51	37.98	-87.64	-8,087.82	3,263.97	1,402.81	1,204.17	198.63	7.062	
18,455.45	7,870.00	8,046.70	7,836.37	164.45	37.98	-87.68	-8,087.84	3,264.02	1,414.49	1,215.05	199.43	7.092	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 43-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	11.25	11.25	0.00	0.01	163.14	-7,164.37	2,171.78	7,486.31				
100.00	100.00	63.95	63.95	0.13	0.13	163.13	-7,164.54	2,172.05	7,486.78	7,486.51	0.26	N/A	
200.00	200.00	119.22	119.21	0.49	0.33	163.13	-7,164.92	2,172.86	7,487.85	7,487.03	0.82	9,115.773	
300.00	300.00	178.01	177.98	0.85	0.54	163.12	-7,165.51	2,174.28	7,489.51	7,488.12	1.39	5,382.281	
400.00	400.00	227.00	226.94	1.21	0.72	163.11	-7,166.15	2,175.78	7,491.71	7,489.78	1.93	3,888.740	
500.00	500.00	264.50	264.41	1.57	0.86	163.10	-7,166.81	2,177.33	7,494.68	7,492.26	2.42	3,094.586	
600.00	600.00	318.00	317.79	1.93	1.05	163.08	-7,168.19	2,180.52	7,498.68	7,495.70	2.97	2,520.974	
700.00	700.00	318.00	317.79	2.29	1.05	163.08	-7,168.19	2,180.52	7,503.40	7,500.07	3.33	2,251.286	
800.00	800.00	318.00	317.79	2.64	1.05	163.08	-7,168.19	2,180.52	7,509.45	7,505.76	3.69	2,034.351	
900.00	900.00	373.39	372.97	3.00	1.27	163.05	-7,170.44	2,184.80	7,515.98	7,511.73	4.25	1,767.138	
1,000.00	1,000.00	410.00	409.37	3.36	1.41	163.04	-7,172.53	2,188.06	7,523.83	7,519.09	4.74	1,585.833	
1,100.00	1,100.00	410.00	409.37	3.72	1.41	163.04	-7,172.53	2,188.06	7,532.63	7,527.54	5.10	1,477.232	
1,200.00	1,200.00	453.01	452.09	4.08	1.58	163.01	-7,175.58	2,192.04	7,542.34	7,536.72	5.61	1,343.296	
1,300.00	1,300.00	502.00	500.69	4.44	1.77	162.99	-7,179.85	2,196.46	7,553.09	7,546.94	6.15	1,227.951	
1,400.00	1,399.98	502.00	500.69	4.79	1.77	119.83	-7,179.85	2,196.46	7,565.49	7,558.99	6.50	1,163.925	
1,500.00	1,499.84	541.25	539.58	5.15	1.94	119.56	-7,183.87	2,199.89	7,580.56	7,573.56	7.00	1,083.578	
1,600.00	1,599.45	594.00	591.78	5.51	2.16	119.26	-7,190.10	2,204.32	7,598.36	7,590.82	7.54	1,007.380	
1,700.00	1,698.70	594.00	591.78	5.87	2.16	118.90	-7,190.10	2,204.32	7,618.50	7,610.61	7.89	965.264	
1,800.00	1,797.47	642.16	639.36	6.24	2.36	118.53	-7,196.52	2,208.02	7,641.17	7,632.74	8.43	906.378	
1,900.00	1,895.62	686.00	682.64	6.63	2.55	118.13	-7,202.89	2,210.95	7,666.20	7,657.24	8.96	855.626	
2,000.00	1,993.06	686.00	682.64	7.04	2.55	117.62	-7,202.89	2,210.95	7,693.74	7,684.40	9.34	824.180	
2,100.00	2,089.64	725.99	722.03	7.48	2.72	117.13	-7,209.33	2,213.31	7,723.55	7,713.67	9.88	781.954	
2,200.00	2,185.27	778.00	773.08	7.94	2.95	116.64	-7,218.91	2,216.01	7,756.19	7,745.70	10.49	739.723	
2,300.00	2,279.82	778.00	773.08	8.45	2.95	115.98	-7,218.91	2,216.01	7,790.67	7,779.75	10.92	713.674	
2,400.00	2,373.17	778.00	773.08	8.99	2.95	115.26	-7,218.91	2,216.01	7,827.70	7,816.33	11.37	688.352	
2,500.00	2,465.21	778.00	773.08	9.58	2.95	114.48	-7,218.91	2,216.01	7,867.20	7,855.34	11.85	663.673	
2,574.08	2,532.50	818.02	812.19	10.04	3.14	113.99	-7,227.20	2,217.80	7,897.53	7,885.14	12.39	637.514	
2,600.00	2,555.89	822.64	816.69	10.21	3.16	114.01	-7,228.21	2,217.99	7,908.45	7,895.91	12.54	630.588	
2,700.00	2,646.16	855.00	848.18	10.88	3.31	114.12	-7,235.57	2,219.25	7,951.18	7,937.98	13.20	602.475	
2,800.00	2,736.44	855.00	848.18	11.57	3.31	114.12	-7,235.57	2,219.25	7,994.63	7,980.90	13.74	582.013	
2,900.00	2,826.71	855.00	848.18	12.27	3.31	114.12	-7,235.57	2,219.25	8,039.09	8,024.81	14.28	562.869	
3,000.00	2,916.98	903.48	895.17	13.00	3.55	114.28	-7,247.35	2,221.15	8,084.02	8,068.99	15.04	537.638	
3,100.00	3,007.25	942.00	932.37	13.73	3.75	114.41	-7,257.21	2,222.83	8,129.92	8,114.17	15.75	516.089	
3,200.00	3,097.52	942.00	932.37	14.48	3.75	114.41	-7,257.21	2,222.83	8,176.46	8,160.15	16.31	501.268	
3,300.00	3,187.80	975.91	965.03	15.23	3.93	114.52	-7,266.19	2,224.48	8,223.74	8,206.71	17.03	483.037	
3,400.00	3,278.07	1,002.72	990.79	15.99	4.07	114.61	-7,273.45	2,225.94	8,271.71	8,254.01	17.70	467.378	
3,500.00	3,368.34	1,031.00	1,017.92	16.76	4.22	114.70	-7,281.26	2,227.61	8,320.35	8,301.97	18.38	452.679	
3,600.00	3,458.61	1,065.14	1,050.62	17.54	4.41	114.81	-7,290.85	2,229.81	8,369.60	8,350.51	19.09	438.407	
3,700.00	3,548.89	1,116.00	1,099.23	18.32	4.70	114.97	-7,305.36	2,233.37	8,419.44	8,399.56	19.88	423.445	
3,800.00	3,639.16	1,184.92	1,165.06	19.10	5.10	115.19	-7,325.20	2,238.16	8,469.65	8,448.89	20.76	407.985	
3,900.00	3,729.43	1,228.38	1,206.57	19.89	5.36	115.33	-7,337.73	2,240.96	8,520.02	8,498.50	21.52	395.952	
4,000.00	3,819.70	1,257.37	1,234.22	20.69	5.53	115.42	-7,346.26	2,242.85	8,570.98	8,548.78	22.21	385.989	
4,100.00	3,909.98	1,291.00	1,266.22	21.48	5.73	115.52	-7,356.36	2,245.07	8,622.55	8,599.64	22.91	376.316	
4,200.00	4,000.25	1,318.29	1,292.14	22.28	5.90	115.61	-7,364.69	2,246.93	8,674.68	8,651.09	23.59	367.757	
4,300.00	4,090.52	1,351.01	1,323.17	23.08	6.10	115.71	-7,374.82	2,249.23	8,727.36	8,703.07	24.29	359.342	
4,400.00	4,180.79	1,378.00	1,348.72	23.88	6.27	115.79	-7,383.28	2,251.19	8,780.57	8,755.62	24.95	351.863	
4,500.00	4,271.06	1,414.43	1,383.15	24.69	6.50	115.90	-7,394.85	2,254.01	8,834.31	8,808.65	25.67	344.173	
4,600.00	4,361.34	1,466.00	1,431.75	25.49	6.83	116.06	-7,411.53	2,258.38	8,888.65	8,862.19	26.46	335.951	
4,700.00	4,451.61	1,466.00	1,431.75	26.30	6.83	116.06	-7,411.53	2,258.38	8,943.40	8,916.42	26.98	331.527	
4,800.00	4,541.88	1,466.00	1,431.75	27.11	6.83	116.06	-7,411.53	2,258.38	8,998.93	8,971.44	27.49	327.373	
4,900.00	4,632.15	1,509.39	1,472.47	27.92	7.12	116.18	-7,426.03	2,262.24	9,054.79	9,026.56	28.23	320.775	
5,000.00	4,722.43	1,553.00	1,513.16	28.74	7.42	116.31	-7,441.23	2,266.08	9,111.54	9,082.57	28.97	314.560	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 43-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	1,553.00	1,513.16	29.55	7.42	116.31	-7,441.23	2,266.08	9,168.59	9,139.13	29.46	311.193	
5,200.00	4,902.97	1,553.00	1,513.16	30.37	7.42	116.31	-7,441.23	2,266.08	9,226.38	9,196.43	29.95	308.029	
5,300.00	4,993.24	1,588.86	1,546.46	31.18	7.67	116.42	-7,454.16	2,269.12	9,284.66	9,254.02	30.64	303.045	
5,400.00	5,083.51	1,610.99	1,566.97	32.00	7.83	116.49	-7,462.31	2,270.90	9,343.50	9,312.25	31.24	299.069	
5,500.00	5,173.79	1,640.00	1,593.77	32.82	8.03	116.57	-7,473.18	2,273.12	9,402.86	9,370.98	31.88	294.941	
5,600.00	5,264.06	1,640.00	1,593.77	33.63	8.03	116.57	-7,473.18	2,273.12	9,462.76	9,430.41	32.35	292.520	
5,700.00	5,354.33	1,691.81	1,641.49	34.45	8.41	116.73	-7,493.00	2,276.83	9,523.00	9,489.89	33.11	287.606	
5,800.00	5,444.60	1,728.00	1,674.74	35.27	8.67	116.84	-7,507.08	2,279.27	9,583.73	9,549.95	33.78	283.707	
5,900.00	5,534.88	2,458.87	2,355.14	36.09	13.82	118.94	-7,768.59	2,327.35	9,641.79	9,603.35	38.44	250.816	
6,000.00	5,625.15	2,665.45	2,550.35	36.91	15.19	119.51	-7,835.41	2,337.32	9,697.52	9,657.45	40.07	242.018	
6,100.00	5,715.42	2,688.00	2,571.72	37.74	15.34	119.58	-7,842.56	2,338.16	9,752.70	9,712.02	40.68	239.741	
6,200.00	5,805.69	2,732.49	2,613.82	38.56	15.63	119.70	-7,856.81	2,340.11	9,808.27	9,766.86	41.41	236.855	
6,300.00	5,895.96	2,775.00	2,653.91	39.38	15.91	119.81	-7,870.71	2,342.68	9,864.45	9,822.32	42.13	234.158	
6,400.00	5,986.24	2,801.47	2,678.84	40.20	16.09	119.88	-7,879.44	2,344.52	9,921.00	9,878.25	42.75	232.057	
6,500.00	6,076.51	2,884.13	2,756.65	41.03	16.66	120.09	-7,906.64	2,350.56	9,977.75	9,934.05	43.70	228.327	
8,900.00	7,870.00	8,085.54	7,805.89	49.53	40.00	-81.62	-8,784.56	2,470.82	9,947.91	9,872.98	74.93	132.764	
9,000.00	7,870.00	8,085.98	7,806.32	49.01	40.00	-81.67	-8,784.56	2,470.84	9,848.09	9,773.22	74.87	131.533	
9,100.00	7,870.00	8,086.42	7,806.76	48.52	40.00	-81.71	-8,784.56	2,470.86	9,748.27	9,673.46	74.81	130.300	
9,200.00	7,870.00	8,086.86	7,807.20	48.06	40.00	-81.75	-8,784.57	2,470.87	9,648.46	9,573.70	74.76	129.066	
9,300.00	7,870.00	8,087.30	7,807.65	47.63	40.01	-81.79	-8,784.57	2,470.89	9,548.65	9,473.95	74.70	127.831	
9,400.00	7,870.00	8,100.00	7,820.33	47.22	40.04	-83.02	-8,784.65	2,471.45	9,448.85	9,374.17	74.68	126.525	
9,500.00	7,870.00	8,100.00	7,820.33	46.83	40.04	-83.02	-8,784.65	2,471.45	9,349.05	9,274.43	74.62	125.289	
9,600.00	7,870.00	8,100.00	7,820.33	46.48	40.04	-83.02	-8,784.65	2,471.45	9,249.25	9,174.69	74.56	124.053	
9,700.00	7,870.00	8,100.00	7,820.33	46.14	40.04	-83.02	-8,784.65	2,471.45	9,149.46	9,074.96	74.50	122.815	
9,800.00	7,870.00	8,100.00	7,820.33	45.83	40.04	-83.02	-8,784.65	2,471.45	9,049.67	8,975.23	74.44	121.577	
9,900.00	7,870.00	8,100.00	7,820.33	45.54	40.04	-83.02	-8,784.65	2,471.45	8,949.88	8,875.51	74.37	120.336	
10,000.00	7,870.00	8,100.00	7,820.33	45.27	40.04	-83.02	-8,784.65	2,471.45	8,850.10	8,775.79	74.31	119.095	
10,100.00	7,870.00	8,100.00	7,820.33	45.03	40.04	-83.02	-8,784.65	2,471.45	8,750.33	8,676.08	74.25	117.853	
10,200.00	7,870.00	8,100.00	7,820.33	44.82	40.04	-83.02	-8,784.65	2,471.45	8,650.56	8,576.37	74.18	116.609	
10,300.00	7,870.00	8,100.00	7,820.33	44.66	40.04	-83.02	-8,784.65	2,471.45	8,550.79	8,476.67	74.12	115.365	
10,400.00	7,870.00	8,100.00	7,820.33	44.56	40.04	-83.02	-8,784.65	2,471.45	8,451.03	8,376.98	74.05	114.119	
10,500.00	7,870.00	8,100.00	7,820.33	44.58	40.04	-83.02	-8,784.65	2,471.45	8,351.28	8,277.29	73.99	112.872	
10,600.00	7,870.00	8,100.00	7,820.33	44.82	40.04	-83.02	-8,784.65	2,471.45	8,251.53	8,177.61	73.92	111.624	
10,700.00	7,870.00	8,100.00	7,820.33	45.36	40.04	-83.02	-8,784.65	2,471.45	8,151.79	8,077.94	73.86	110.374	
10,800.00	7,870.00	8,100.00	7,820.33	46.15	40.04	-83.02	-8,784.65	2,471.45	8,052.06	7,978.27	73.79	109.124	
10,900.00	7,870.00	8,100.00	7,820.33	47.09	40.04	-83.02	-8,784.65	2,471.45	7,952.33	7,878.61	73.72	107.873	
11,000.00	7,870.00	8,100.00	7,820.33	48.13	40.04	-83.02	-8,784.65	2,471.45	7,852.61	7,778.96	73.65	106.620	
11,100.00	7,870.00	8,100.00	7,820.33	49.22	40.04	-83.02	-8,784.65	2,471.45	7,752.89	7,679.31	73.58	105.367	
11,200.00	7,870.00	8,100.00	7,820.33	50.37	40.04	-83.02	-8,784.65	2,471.45	7,653.19	7,579.68	73.51	104.112	
11,300.00	7,870.00	8,100.00	7,820.33	51.55	40.04	-83.02	-8,784.65	2,471.45	7,553.49	7,480.05	73.44	102.856	
11,400.00	7,870.00	8,100.00	7,820.33	52.76	40.04	-83.02	-8,784.65	2,471.45	7,453.80	7,380.43	73.36	101.600	
11,500.00	7,870.00	8,100.00	7,820.33	54.00	40.04	-83.02	-8,784.65	2,471.45	7,354.12	7,280.83	73.29	100.342	
11,600.00	7,870.00	8,100.00	7,820.33	55.27	40.04	-83.02	-8,784.65	2,471.45	7,254.44	7,181.23	73.22	99.083	
11,700.00	7,870.00	8,100.00	7,820.33	56.56	40.04	-83.02	-8,784.65	2,471.45	7,154.78	7,081.64	73.14	97.823	
11,800.00	7,870.00	8,100.00	7,820.33	57.88	40.04	-83.02	-8,784.65	2,471.45	7,055.12	6,982.06	73.06	96.562	
11,900.00	7,870.00	8,100.00	7,820.33	59.21	40.04	-83.02	-8,784.65	2,471.45	6,955.48	6,882.49	72.99	95.300	
12,000.00	7,870.00	8,100.00	7,820.33	60.57	40.04	-83.02	-8,784.65	2,471.45	6,855.84	6,782.94	72.91	94.036	
12,100.00	7,870.00	8,100.00	7,820.33	61.94	40.04	-83.02	-8,784.65	2,471.45	6,756.22	6,683.39	72.83	92.772	
12,200.00	7,870.00	8,100.00	7,820.33	63.33	40.04	-83.02	-8,784.65	2,471.45	6,656.61	6,583.86	72.74	91.506	
12,300.00	7,870.00	8,100.00	7,820.33	64.74	40.04	-83.02	-8,784.65	2,471.45	6,557.01	6,484.34	72.66	90.240	
12,400.00	7,870.00	8,100.00	7,820.33	66.16	40.04	-83.02	-8,784.65	2,471.45	6,457.42	6,384.84	72.58	88.972	
12,500.00	7,870.00	8,100.00	7,820.33	67.59	40.04	-83.02	-8,784.65	2,471.45	6,357.84	6,285.35	72.49	87.703	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 43-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.00	7,870.00	8,100.00	7,820.33	69.04	40.04	-83.02	-8,784.65	2,471.45	6,258.28	6,185.87	72.41	86.432	
12,700.00	7,870.00	8,100.00	7,820.33	70.51	40.04	-83.02	-8,784.65	2,471.45	6,158.73	6,086.41	72.32	85.160	
12,800.00	7,870.00	8,100.00	7,820.33	71.98	40.04	-83.02	-8,784.65	2,471.45	6,059.20	5,986.97	72.23	83.887	
12,900.00	7,870.00	8,100.00	7,820.33	73.47	40.04	-83.02	-8,784.65	2,471.45	5,959.68	5,887.54	72.14	82.613	
13,000.00	7,870.00	8,100.00	7,820.33	74.96	40.04	-83.02	-8,784.65	2,471.45	5,860.18	5,788.13	72.05	81.337	
13,100.00	7,870.00	8,100.00	7,820.33	76.47	40.04	-83.02	-8,784.65	2,471.45	5,760.70	5,688.74	71.96	80.060	
13,200.00	7,870.00	8,100.00	7,820.33	77.99	40.04	-83.02	-8,784.65	2,471.45	5,661.23	5,589.37	71.86	78.781	
13,300.00	7,870.00	8,100.00	7,820.33	79.51	40.04	-83.02	-8,784.65	2,471.45	5,561.79	5,490.02	71.77	77.500	
13,400.00	7,870.00	8,100.00	7,820.33	81.05	40.04	-83.02	-8,784.65	2,471.45	5,462.36	5,390.69	71.67	76.218	
13,500.00	7,870.00	8,100.00	7,820.33	82.59	40.04	-83.02	-8,784.65	2,471.45	5,362.96	5,291.39	71.57	74.933	
13,600.00	7,870.00	8,100.00	7,820.33	84.14	40.04	-83.02	-8,784.65	2,471.45	5,263.58	5,192.11	71.47	73.647	
13,700.00	7,870.00	8,100.00	7,820.33	85.70	40.04	-83.02	-8,784.65	2,471.45	5,164.22	5,092.85	71.37	72.359	
13,800.00	7,870.00	8,100.00	7,820.33	87.26	40.04	-83.02	-8,784.65	2,471.45	5,064.88	4,993.62	71.27	71.068	
13,900.00	7,870.00	8,100.00	7,820.33	88.83	40.04	-83.02	-8,784.65	2,471.45	4,965.58	4,894.41	71.17	69.775	
14,000.00	7,870.00	8,100.00	7,820.33	90.41	40.04	-83.02	-8,784.65	2,471.45	4,866.30	4,795.24	71.06	68.479	
14,100.00	7,870.00	8,100.00	7,820.33	92.00	40.04	-83.02	-8,784.65	2,471.45	4,767.05	4,696.10	70.96	67.181	
14,200.00	7,870.00	8,100.00	7,820.33	93.59	40.04	-83.02	-8,784.65	2,471.45	4,667.84	4,596.98	70.85	65.879	
14,300.00	7,870.00	8,100.00	7,820.33	95.18	40.04	-83.02	-8,784.65	2,471.45	4,568.66	4,497.91	70.75	64.575	
14,400.00	7,870.00	8,100.00	7,820.33	96.79	40.04	-83.02	-8,784.65	2,471.45	4,469.51	4,398.87	70.65	63.266	
14,500.00	7,870.00	8,100.00	7,820.33	98.39	40.04	-83.02	-8,784.65	2,471.45	4,370.41	4,299.86	70.54	61.954	
14,600.00	7,870.00	8,100.00	7,820.33	100.00	40.04	-83.02	-8,784.65	2,471.45	4,271.34	4,200.90	70.44	60.638	
14,700.00	7,870.00	8,100.00	7,820.33	101.62	40.04	-83.02	-8,784.65	2,471.45	4,172.32	4,101.98	70.34	59.317	
14,800.00	7,870.00	8,100.00	7,820.33	103.24	40.04	-83.02	-8,784.65	2,471.45	4,073.35	4,003.11	70.24	57.990	
14,900.00	7,870.00	8,100.00	7,820.33	104.87	40.04	-83.02	-8,784.65	2,471.45	3,974.43	3,904.29	70.15	56.659	
15,000.00	7,870.00	8,100.00	7,820.33	106.50	40.04	-83.02	-8,784.65	2,471.45	3,875.57	3,805.51	70.06	55.321	
15,100.00	7,870.00	8,100.00	7,820.33	108.13	40.04	-83.02	-8,784.65	2,471.45	3,776.76	3,706.79	69.97	53.976	
15,200.00	7,870.00	8,100.00	7,820.33	109.77	40.04	-83.02	-8,784.65	2,471.45	3,678.02	3,608.13	69.89	52.624	
15,300.00	7,870.00	8,100.00	7,820.33	111.41	40.04	-83.02	-8,784.65	2,471.45	3,579.35	3,509.53	69.82	51.264	
15,400.00	7,870.00	8,100.00	7,820.33	113.05	40.04	-83.02	-8,784.65	2,471.45	3,480.76	3,411.00	69.76	49.895	
15,500.00	7,870.00	8,100.00	7,820.33	114.70	40.04	-83.02	-8,784.65	2,471.45	3,382.25	3,312.54	69.71	48.516	
15,600.00	7,870.00	8,100.00	7,820.33	116.35	40.04	-83.02	-8,784.65	2,471.45	3,283.83	3,214.15	69.68	47.126	
15,700.00	7,870.00	8,116.63	7,836.94	118.00	40.08	-84.63	-8,784.78	2,472.22	3,185.44	3,115.65	69.79	45.644	
15,800.00	7,870.00	8,117.22	7,837.53	119.66	40.08	-84.69	-8,784.79	2,472.25	3,087.22	3,017.41	69.81	44.226	
15,900.00	7,870.00	8,117.81	7,838.12	121.32	40.09	-84.75	-8,784.79	2,472.28	2,989.11	2,919.26	69.85	42.794	
16,000.00	7,870.00	8,118.42	7,838.73	122.98	40.09	-84.81	-8,784.80	2,472.31	2,891.14	2,821.21	69.93	41.345	
16,100.00	7,870.00	8,119.03	7,839.34	124.65	40.09	-84.87	-8,784.80	2,472.34	2,793.31	2,723.27	70.04	39.880	
16,200.00	7,870.00	8,119.66	7,839.97	126.32	40.09	-84.93	-8,784.81	2,472.37	2,695.64	2,625.43	70.21	38.394	
16,300.00	7,870.00	8,120.29	7,840.60	127.99	40.09	-84.99	-8,784.82	2,472.40	2,598.14	2,527.71	70.43	36.888	
16,400.00	7,870.00	8,120.94	7,841.25	129.66	40.09	-85.05	-8,784.82	2,472.43	2,500.85	2,430.12	70.73	35.360	
16,500.00	7,870.00	8,121.60	7,841.90	131.33	40.10	-85.12	-8,784.83	2,472.46	2,403.77	2,332.67	71.10	33.807	
16,600.00	7,870.00	8,122.26	7,842.57	133.01	40.10	-85.18	-8,784.83	2,472.49	2,306.94	2,235.36	71.58	32.230	
16,700.00	7,870.00	8,122.94	7,843.25	134.69	40.10	-85.25	-8,784.84	2,472.53	2,210.40	2,138.22	72.18	30.625	
16,800.00	7,870.00	8,123.64	7,843.94	136.37	40.10	-85.32	-8,784.85	2,472.56	2,114.18	2,041.26	72.92	28.994	
16,900.00	7,870.00	8,124.34	7,844.64	138.06	40.10	-85.38	-8,784.85	2,472.59	2,018.32	1,944.49	73.83	27.337	
17,000.00	7,870.00	8,125.06	7,845.36	139.74	40.11	-85.45	-8,784.86	2,472.63	1,922.89	1,847.93	74.95	25.655	
17,100.00	7,870.00	8,125.79	7,846.09	141.43	40.11	-85.53	-8,784.87	2,472.67	1,827.94	1,751.62	76.32	23.951	
17,200.00	7,870.00	8,126.53	7,846.83	143.12	40.11	-85.60	-8,784.87	2,472.70	1,733.56	1,655.57	77.99	22.229	
17,300.00	7,870.00	8,127.29	7,847.58	144.81	40.11	-85.67	-8,784.88	2,472.74	1,639.85	1,559.84	80.01	20.496	
17,400.00	7,870.00	8,128.06	7,848.35	146.50	40.11	-85.75	-8,784.89	2,472.78	1,546.93	1,464.47	82.45	18.761	
17,500.00	7,870.00	8,128.84	7,849.14	148.19	40.12	-85.82	-8,784.90	2,472.82	1,454.94	1,369.53	85.41	17.035	
17,600.00	7,870.00	8,129.64	7,849.94	149.89	40.12	-85.90	-8,784.91	2,472.86	1,364.08	1,275.12	88.96	15.333	
17,700.00	7,870.00	8,130.45	7,850.75	151.59	40.12	-85.98	-8,784.91	2,472.90	1,274.59	1,181.35	93.24	13.670	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 43-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,800.00	7,870.00	8,131.28	7,851.58	153.29	40.12	-86.06	-8,784.92	2,472.94	1,186.78	1,088.41	98.37	12.064	
17,900.00	7,870.00	8,132.13	7,852.42	154.99	40.13	-86.14	-8,784.93	2,472.98	1,101.04	996.53	104.51	10.535	
18,000.00	7,870.00	8,132.99	7,853.28	156.69	40.13	-86.23	-8,784.94	2,473.03	1,017.92	906.07	111.84	9.101	
18,100.00	7,870.00	8,133.87	7,854.16	158.39	40.13	-86.31	-8,784.95	2,473.07	938.09	817.55	120.54	7.782	
18,200.00	7,870.00	8,134.77	7,855.06	160.09	40.13	-86.40	-8,784.96	2,473.12	862.48	731.71	130.77	6.595	
18,300.00	7,870.00	8,135.68	7,855.97	161.80	40.14	-86.49	-8,784.97	2,473.17	792.29	649.67	142.62	5.555	
18,400.00	7,870.00	8,136.62	7,856.90	163.51	40.14	-86.58	-8,784.98	2,473.21	729.09	573.12	155.98	4.674	
18,455.45	7,870.00	8,137.14	7,857.43	164.45	40.14	-86.63	-8,784.99	2,473.24	697.77	533.88	163.89	4.258	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	162.99	-7,119.19	2,177.64	7,444.83				
100.00	100.00	42.87	42.87	0.13	0.08	162.99	-7,119.30	2,178.06	7,445.44	7,445.24	0.20	N/A	
200.00	200.00	74.00	73.98	0.49	0.14	162.98	-7,119.52	2,178.89	7,446.95	7,446.34	0.61	N/A	
300.00	300.00	117.49	117.45	0.85	0.28	162.97	-7,120.06	2,180.51	7,449.28	7,448.16	1.12	6,635.382	
400.00	400.00	166.00	165.89	1.21	0.45	162.96	-7,121.05	2,182.66	7,452.45	7,450.79	1.66	4,497.343	
500.00	500.00	217.22	217.02	1.57	0.64	162.94	-7,122.32	2,185.37	7,456.30	7,454.09	2.20	3,383.261	
600.00	600.00	298.66	298.27	1.93	0.95	162.91	-7,124.33	2,190.71	7,460.57	7,457.70	2.86	2,606.160	
700.00	700.00	349.00	348.43	2.29	1.14	162.88	-7,125.37	2,194.71	7,465.07	7,461.66	3.41	2,190.498	
800.00	800.00	406.28	405.47	2.64	1.36	162.85	-7,126.76	2,199.82	7,470.17	7,466.18	3.98	1,875.403	
900.00	900.00	440.00	439.02	3.00	1.49	162.82	-7,127.85	2,203.06	7,476.16	7,471.69	4.47	1,673.142	
1,000.00	1,000.00	473.13	471.94	3.36	1.63	162.80	-7,129.13	2,206.54	7,483.04	7,478.09	4.95	1,510.307	
1,100.00	1,100.00	502.77	501.34	3.72	1.75	162.78	-7,130.47	2,210.02	7,490.86	7,485.43	5.43	1,380.505	
1,200.00	1,200.00	533.00	531.28	4.08	1.88	162.75	-7,132.01	2,213.94	7,499.61	7,493.71	5.90	1,271.372	
1,300.00	1,300.00	621.28	618.48	4.44	2.26	162.67	-7,136.49	2,226.95	7,508.91	7,502.30	6.62	1,135.071	
1,400.00	1,399.98	669.84	666.30	4.79	2.48	119.49	-7,138.84	2,235.03	7,519.47	7,512.29	7.18	1,047.999	
1,500.00	1,499.84	717.00	712.61	5.15	2.69	119.22	-7,141.24	2,243.59	7,532.43	7,524.70	7.73	974.753	
1,600.00	1,599.45	793.50	787.38	5.51	3.07	118.89	-7,144.89	2,259.34	7,547.58	7,539.15	8.43	895.238	
1,700.00	1,698.70	805.00	798.57	5.87	3.12	118.57	-7,145.39	2,261.93	7,565.03	7,556.20	8.84	856.107	
1,800.00	1,797.47	862.55	854.44	6.24	3.43	118.18	-7,148.17	2,275.46	7,584.70	7,575.22	9.48	800.160	
1,900.00	1,895.62	893.00	883.90	6.63	3.59	117.77	-7,149.92	2,282.95	7,606.99	7,597.00	10.00	760.877	
2,000.00	1,993.06	941.01	930.17	7.04	3.86	117.31	-7,152.85	2,295.40	7,631.60	7,620.97	10.63	717.860	
2,100.00	2,089.64	980.00	967.57	7.48	4.08	116.81	-7,155.24	2,306.18	7,658.40	7,647.16	11.23	681.687	
2,200.00	2,185.27	1,031.00	1,016.18	7.94	4.38	116.26	-7,158.50	2,321.25	7,687.44	7,675.50	11.94	643.904	
2,300.00	2,279.82	1,055.43	1,039.35	8.45	4.54	115.68	-7,160.16	2,328.81	7,718.67	7,706.14	12.52	616.371	
2,400.00	2,373.17	1,095.00	1,076.80	8.99	4.79	115.05	-7,163.03	2,341.27	7,752.05	7,738.83	13.22	586.207	
2,500.00	2,465.21	1,183.00	1,160.11	9.58	5.36	114.43	-7,169.65	2,368.84	7,787.05	7,772.80	14.26	546.252	
2,574.08	2,532.50	1,214.85	1,190.26	10.04	5.57	113.93	-7,172.12	2,378.82	7,814.08	7,799.24	14.84	526.390	
2,600.00	2,555.89	1,222.71	1,197.67	10.21	5.62	113.94	-7,172.76	2,381.33	7,823.77	7,808.74	15.03	520.404	
2,700.00	2,646.16	1,270.00	1,242.17	10.88	5.94	113.98	-7,176.80	2,396.84	7,861.67	7,845.79	15.88	495.049	
2,800.00	2,736.44	1,330.82	1,299.18	11.57	6.36	114.03	-7,182.10	2,417.34	7,900.07	7,883.22	16.84	469.021	
2,900.00	2,826.71	1,532.00	1,487.63	12.27	7.79	114.19	-7,196.90	2,486.18	7,937.21	7,918.42	18.79	422.526	
3,000.00	2,916.98	1,592.57	1,544.23	13.00	8.23	114.23	-7,200.94	2,507.38	7,974.39	7,954.59	19.80	402.758	
3,100.00	3,007.25	1,665.40	1,612.10	13.73	8.77	114.27	-7,206.18	2,533.24	8,012.11	7,991.20	20.92	383.067	
3,200.00	3,097.52	1,757.91	1,698.15	14.48	9.47	114.33	-7,212.57	2,566.63	8,049.81	8,027.61	22.19	362.748	
3,300.00	3,187.80	1,846.06	1,780.10	15.23	10.13	114.38	-7,218.73	2,598.52	8,087.60	8,064.15	23.45	344.903	
3,400.00	3,278.07	1,931.50	1,859.47	15.99	10.78	114.43	-7,224.67	2,629.58	8,125.41	8,100.71	24.70	328.988	
3,500.00	3,368.34	1,994.39	1,917.82	16.76	11.27	114.46	-7,229.09	2,652.60	8,163.42	8,137.63	25.79	316.576	
3,600.00	3,458.61	2,056.00	1,974.93	17.54	11.74	114.49	-7,233.78	2,675.23	8,201.90	8,175.03	26.87	305.240	
3,700.00	3,548.89	2,126.81	2,040.58	18.32	12.29	114.53	-7,239.43	2,701.17	8,240.70	8,212.67	28.03	294.029	
3,800.00	3,639.16	2,223.31	2,130.23	19.10	13.03	114.59	-7,247.25	2,736.00	8,279.48	8,250.10	29.38	281.831	
3,900.00	3,729.43	2,268.80	2,172.57	19.89	13.38	114.62	-7,251.12	2,752.19	8,318.48	8,288.14	30.34	274.194	
4,000.00	3,819.70	2,317.00	2,217.38	20.69	13.75	114.65	-7,255.53	2,769.38	8,358.05	8,326.73	31.32	266.874	
4,100.00	3,909.98	2,457.02	2,347.40	21.48	14.84	114.73	-7,267.91	2,819.86	8,397.45	8,364.43	33.02	254.344	
4,200.00	4,000.25	2,515.48	2,401.62	22.28	15.29	114.76	-7,272.93	2,841.12	8,436.81	8,402.73	34.08	247.526	
4,300.00	4,090.52	2,554.73	2,438.09	23.08	15.59	114.78	-7,276.64	2,855.15	8,476.71	8,441.71	35.00	242.196	
4,400.00	4,180.79	4,400.00	2,520.91	23.88	29.73	114.84	-7,285.56	2,886.45	8,516.95	8,468.68	48.27	176.456	
4,500.00	4,271.06	2,730.79	2,601.88	24.69	16.95	114.90	-7,294.08	2,917.30	8,557.07	8,519.48	37.58	227.692	
4,600.00	4,361.34	2,823.72	2,688.09	25.49	17.67	114.95	-7,303.19	2,950.81	8,597.39	8,558.47	38.93	220.868	
4,700.00	4,451.61	2,906.91	2,765.02	26.30	18.33	115.00	-7,311.07	2,981.44	8,637.66	8,597.46	40.20	214.850	
4,800.00	4,541.88	3,059.06	2,906.23	27.11	19.52	115.08	-7,325.48	3,036.24	8,677.70	8,635.67	42.03	206.477	
4,900.00	4,632.15	3,141.04	2,982.25	27.92	20.16	115.13	-7,332.82	3,066.04	8,717.39	8,674.09	43.30	201.345	
5,000.00	4,722.43	3,234.66	3,068.71	28.74	20.91	115.17	-7,341.16	3,100.95	8,757.32	8,712.65	44.67	196.048	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	3,322.59	3,150.27	29.55	21.61	115.22	-7,349.04	3,132.86	8,797.00	8,751.01	45.99	191.264	
5,200.00	4,902.97	3,365.00	3,189.48	30.37	21.94	115.24	-7,352.88	3,148.55	8,837.04	8,790.10	46.94	188.252	
5,300.00	4,993.24	3,424.02	3,244.00	31.18	22.41	115.26	-7,358.48	3,170.46	8,877.48	8,829.45	48.03	184.834	
5,400.00	5,083.51	3,473.03	3,289.31	32.00	22.81	115.29	-7,363.48	3,188.46	8,918.39	8,869.36	49.03	181.903	
5,500.00	5,173.79	3,524.33	3,336.78	32.82	23.21	115.32	-7,369.00	3,207.12	8,959.71	8,909.67	50.04	179.051	
5,600.00	5,264.06	3,747.80	3,543.16	33.63	25.01	115.42	-7,390.82	3,289.96	9,000.05	8,947.52	52.52	171.361	
5,700.00	5,354.33	3,802.00	3,593.04	34.45	25.45	115.44	-7,395.85	3,310.55	9,040.48	8,986.91	53.58	168.739	
5,800.00	5,444.60	5,318.99	5,050.67	35.27	34.36	117.12	-7,482.23	3,696.28	9,080.71	9,016.98	63.73	142.483	
5,900.00	5,534.88	5,400.82	5,132.12	36.09	34.62	117.28	-7,483.90	3,703.98	9,106.86	9,042.13	64.72	140.703	
6,000.00	5,625.15	5,787.16	5,518.07	36.91	35.54	118.18	-7,491.76	3,716.32	9,130.95	9,064.49	66.46	137.388	
6,100.00	5,715.42	5,896.51	5,627.40	37.74	35.76	118.44	-7,493.06	3,716.97	9,154.37	9,086.95	67.43	135.767	
6,200.00	5,805.69	6,064.42	5,795.31	38.56	36.11	118.85	-7,494.23	3,717.63	9,177.47	9,108.94	68.53	133.926	
6,300.00	5,895.96	6,166.75	5,897.63	39.38	36.30	119.10	-7,494.52	3,717.63	9,200.25	9,130.78	69.47	132.437	
6,400.00	5,986.24	6,294.80	6,025.68	40.20	36.55	119.41	-7,494.83	3,717.01	9,223.06	9,152.60	70.46	130.892	
6,500.00	6,076.51	6,474.22	6,205.10	41.03	36.89	119.84	-7,493.59	3,716.37	9,245.12	9,173.56	71.57	129.178	
6,600.00	6,166.78	6,585.23	6,316.10	41.85	37.11	120.10	-7,492.21	3,716.08	9,266.96	9,194.42	72.53	127.761	
6,700.00	6,257.05	6,700.55	6,431.41	42.67	37.35	120.37	-7,490.46	3,715.92	9,288.71	9,215.20	73.51	126.354	
6,800.00	6,347.33	6,825.50	6,556.34	43.50	37.61	120.66	-7,488.09	3,716.10	9,310.34	9,235.82	74.52	124.941	
6,900.00	6,437.60	6,964.03	6,694.82	44.32	37.91	120.97	-7,484.76	3,716.48	9,331.69	9,256.13	75.56	123.506	
7,000.00	6,527.87	7,031.78	6,762.55	45.15	38.06	121.12	-7,483.03	3,716.91	9,353.09	9,276.65	76.44	122.361	
7,100.00	6,618.14	7,108.68	6,839.42	45.98	38.23	121.29	-7,481.10	3,717.69	9,374.76	9,297.43	77.34	121.220	
7,200.00	6,708.41	7,197.16	6,927.87	46.80	38.44	121.49	-7,478.90	3,718.88	9,396.65	9,318.38	78.27	120.054	
7,300.00	6,798.69	7,287.50	7,018.17	47.63	38.65	121.68	-7,476.64	3,720.22	9,418.68	9,339.47	79.21	118.913	
7,400.00	6,888.96	7,348.51	7,079.15	48.45	38.80	121.81	-7,475.18	3,721.23	9,440.96	9,360.90	80.07	117.910	
7,500.00	6,979.23	7,407.21	7,137.83	49.28	38.95	121.94	-7,473.95	3,722.35	9,463.69	9,382.77	80.92	116.948	
7,600.00	7,069.50	7,468.00	7,198.60	50.11	39.10	122.07	-7,472.87	3,723.66	9,486.85	9,405.07	81.78	116.008	
7,692.09	7,152.63	7,520.80	7,251.37	50.87	39.23	122.18	-7,472.08	3,724.92	9,508.55	9,425.99	82.56	115.173	
7,700.00	7,159.79	7,525.53	7,256.10	50.93	39.25	121.02	-7,472.01	3,725.04	9,510.38	9,427.75	82.63	115.102	
7,750.00	7,205.70	7,555.85	7,286.41	51.32	39.33	112.21	-7,471.62	3,725.82	9,519.58	9,436.54	83.05	114.630	
7,800.00	7,252.52	7,586.73	7,317.28	51.66	39.41	100.63	-7,471.27	3,726.66	9,524.67	9,441.21	83.45	114.131	
7,850.00	7,299.89	7,617.96	7,348.50	51.96	39.49	86.46	-7,470.97	3,727.56	9,525.59	9,441.75	83.84	113.610	
7,900.00	7,347.44	7,643.00	7,373.52	52.20	39.56	71.08	-7,470.75	3,728.30	9,522.36	9,438.16	84.19	113.103	
7,950.00	7,394.83	7,683.75	7,414.26	52.39	39.67	56.64	-7,470.47	3,729.54	9,514.96	9,430.40	84.56	112.521	
8,000.00	7,441.68	7,717.27	7,447.75	52.53	39.76	44.57	-7,470.29	3,730.55	9,503.46	9,418.58	84.88	111.964	
8,050.00	7,487.65	7,750.15	7,480.62	52.62	39.85	35.09	-7,470.16	3,731.54	9,487.93	9,402.76	85.17	111.403	
8,100.00	7,532.37	7,782.16	7,512.61	52.67	39.93	27.75	-7,470.09	3,732.49	9,468.48	9,383.06	85.42	110.841	
8,150.00	7,575.52	7,817.00	7,547.44	52.67	40.03	21.97	-7,470.05	3,733.53	9,445.25	9,359.59	85.66	110.261	
8,200.00	7,616.76	7,871.24	7,601.66	52.63	40.17	17.30	-7,470.01	3,735.08	9,418.36	9,332.42	85.93	109.600	
8,250.00	7,655.77	7,930.20	7,660.60	52.55	40.33	13.33	-7,469.87	3,736.61	9,387.91	9,301.72	86.19	108.916	
8,300.00	7,692.27	7,985.12	7,715.50	52.44	40.48	9.76	-7,469.65	3,737.91	9,354.17	9,267.75	86.42	108.244	
8,350.00	7,725.97	8,089.20	7,819.55	52.29	40.76	6.36	-7,468.73	3,740.45	9,317.30	9,230.53	86.77	107.383	
8,400.00	7,756.62	8,189.51	7,919.79	52.12	41.03	2.80	-7,466.96	3,743.39	9,277.51	9,190.44	87.08	106.542	
8,450.00	7,783.98	8,450.00	7,870.21	51.92	41.73	-1.17	-7,467.77	3,741.97	9,235.35	9,147.55	87.80	105.190	
8,500.00	7,807.85	8,500.00	7,893.72	51.70	41.87	-5.97	-7,467.47	3,742.59	9,191.28	9,103.37	87.92	104.546	
8,550.00	7,828.05	8,207.90	7,938.18	51.45	41.09	-12.35	-7,466.67	3,744.02	9,145.35	9,058.29	87.07	105.039	
8,600.00	7,844.41	8,216.36	7,946.62	51.20	41.11	-21.31	-7,466.53	3,744.32	9,098.18	9,011.14	87.03	104.535	
8,650.00	7,856.82	8,222.68	7,952.95	50.93	41.13	-34.79	-7,466.43	3,744.55	9,050.03	8,963.04	86.98	104.043	
8,700.00	7,865.18	8,226.82	7,957.08	50.65	41.14	-54.82	-7,466.36	3,744.70	9,001.25	8,914.34	86.91	103.566	
8,750.00	7,869.43	8,228.72	7,958.98	50.36	41.15	-79.68	-7,466.34	3,744.77	8,952.23	8,865.40	86.83	103.104	
8,776.25	7,870.00	8,228.81	7,959.07	50.21	41.15	-92.07	-7,466.33	3,744.77	8,926.51	8,839.73	86.78	102.868	
8,800.00	7,870.00	8,228.61	7,958.87	50.08	41.15	-92.07	-7,466.34	3,744.77	8,903.28	8,816.56	86.73	102.657	
8,900.00	7,870.00	8,227.77	7,958.03	49.53	41.14	-92.04	-7,466.35	3,744.74	8,805.50	8,718.98	86.53	101.768	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 74-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,226.92	7,957.18	49.01	41.14	-92.01	-7,466.36	3,744.70	8,707.77	8,621.45	86.32	100.877	
9,100.00	7,870.00	8,226.06	7,956.32	48.52	41.14	-91.99	-7,466.38	3,744.67	8,610.10	8,523.98	86.11	99.985	
9,200.00	7,870.00	8,225.19	7,955.45	48.06	41.14	-91.96	-7,466.39	3,744.64	8,512.47	8,426.57	85.91	99.091	
9,300.00	7,870.00	8,224.32	7,954.58	47.63	41.13	-91.93	-7,466.40	3,744.61	8,414.91	8,329.21	85.70	98.196	
9,400.00	7,870.00	8,223.44	7,953.70	47.22	41.13	-91.91	-7,466.42	3,744.58	8,317.40	8,231.91	85.48	97.299	
9,500.00	7,870.00	8,222.55	7,952.81	46.83	41.13	-91.88	-7,466.43	3,744.55	8,219.94	8,134.68	85.27	96.401	
9,600.00	7,870.00	8,221.66	7,951.92	46.48	41.13	-91.85	-7,466.45	3,744.51	8,122.56	8,037.50	85.05	95.501	
9,700.00	7,870.00	8,220.75	7,951.02	46.14	41.12	-91.82	-7,466.46	3,744.48	8,025.23	7,940.40	84.83	94.599	
9,800.00	7,870.00	8,219.84	7,950.11	45.83	41.12	-91.80	-7,466.47	3,744.45	7,927.97	7,843.36	84.62	93.694	
9,900.00	7,870.00	8,218.92	7,949.19	45.54	41.12	-91.77	-7,466.49	3,744.41	7,830.78	7,746.39	84.39	92.788	
10,000.00	7,870.00	8,218.00	7,948.26	45.27	41.12	-91.74	-7,466.50	3,744.38	7,733.66	7,649.49	84.17	91.879	
10,100.00	7,870.00	8,217.06	7,947.33	45.03	41.11	-91.71	-7,466.52	3,744.35	7,636.62	7,552.67	83.95	90.968	
10,200.00	7,870.00	8,216.12	7,946.39	44.82	41.11	-91.68	-7,466.54	3,744.31	7,539.65	7,455.93	83.72	90.054	
10,300.00	7,870.00	8,215.17	7,945.44	44.66	41.11	-91.65	-7,466.55	3,744.28	7,442.77	7,359.27	83.50	89.137	
10,400.00	7,870.00	8,214.21	7,944.48	44.56	41.11	-91.62	-7,466.57	3,744.25	7,345.96	7,262.69	83.27	88.217	
10,500.00	7,870.00	8,213.24	7,943.51	44.58	41.10	-91.59	-7,466.58	3,744.21	7,249.25	7,166.20	83.04	87.294	
10,600.00	7,870.00	8,212.27	7,942.54	44.82	41.10	-91.56	-7,466.60	3,744.18	7,152.62	7,069.80	82.82	86.367	
10,700.00	7,870.00	8,211.28	7,941.56	45.36	41.10	-91.53	-7,466.62	3,744.14	7,056.08	6,973.50	82.59	85.436	
10,800.00	7,870.00	8,210.29	7,940.56	46.15	41.09	-91.50	-7,466.63	3,744.11	6,959.65	6,877.29	82.36	84.501	
10,900.00	7,870.00	8,209.29	7,939.56	47.09	41.09	-91.47	-7,466.65	3,744.07	6,863.32	6,781.18	82.13	83.562	
11,000.00	7,870.00	8,208.28	7,938.55	48.13	41.09	-91.44	-7,466.67	3,744.04	6,767.09	6,685.18	81.91	82.617	
11,100.00	7,870.00	8,207.26	7,937.53	49.22	41.09	-91.41	-7,466.68	3,744.00	6,670.97	6,589.29	81.68	81.667	
11,200.00	7,870.00	8,206.23	7,936.50	50.37	41.08	-91.38	-7,466.70	3,743.97	6,574.97	6,493.51	81.46	80.711	
11,300.00	7,870.00	8,205.19	7,935.47	51.55	41.08	-91.34	-7,466.72	3,743.93	6,479.09	6,397.84	81.24	79.750	
11,400.00	7,870.00	8,204.14	7,934.42	52.76	41.08	-91.31	-7,466.74	3,743.89	6,383.33	6,302.31	81.03	78.781	
11,500.00	7,870.00	8,203.08	7,933.36	54.00	41.07	-91.28	-7,466.75	3,743.86	6,287.71	6,206.90	80.81	77.805	
11,600.00	7,870.00	8,202.02	7,932.29	55.27	41.07	-91.25	-7,466.77	3,743.82	6,192.23	6,111.62	80.61	76.821	
11,700.00	7,870.00	8,200.94	7,931.22	56.56	41.07	-91.21	-7,466.79	3,743.78	6,096.89	6,016.48	80.40	75.829	
11,800.00	7,870.00	8,199.85	7,930.13	57.88	41.06	-91.18	-7,466.81	3,743.75	6,001.70	5,921.49	80.21	74.827	
11,900.00	7,870.00	8,198.75	7,929.03	59.21	41.06	-91.14	-7,466.83	3,743.71	5,906.67	5,826.65	80.02	73.816	
12,000.00	7,870.00	8,197.64	7,927.93	60.57	41.06	-91.11	-7,466.85	3,743.67	5,811.80	5,731.96	79.84	72.793	
12,100.00	7,870.00	8,196.53	7,926.81	61.94	41.06	-91.08	-7,466.87	3,743.63	5,717.11	5,637.44	79.67	71.759	
12,200.00	7,870.00	8,195.40	7,925.68	63.33	41.05	-91.04	-7,466.89	3,743.60	5,622.61	5,543.09	79.51	70.713	
12,300.00	7,870.00	8,194.26	7,924.54	64.74	41.05	-91.01	-7,466.91	3,743.56	5,528.29	5,448.93	79.37	69.654	
12,400.00	7,870.00	8,193.11	7,923.39	66.16	41.05	-90.97	-7,466.93	3,743.52	5,434.18	5,354.95	79.24	68.580	
12,500.00	7,870.00	8,191.94	7,922.23	67.59	41.04	-90.93	-7,466.95	3,743.48	5,340.29	5,261.16	79.13	67.491	
12,600.00	7,870.00	8,190.77	7,921.06	69.04	41.04	-90.90	-7,466.97	3,743.44	5,246.62	5,167.58	79.03	66.385	
12,700.00	7,870.00	8,189.59	7,919.87	70.51	41.04	-90.86	-7,467.00	3,743.40	5,153.18	5,074.22	78.96	65.262	
12,800.00	7,870.00	8,188.39	7,918.68	71.98	41.03	-90.82	-7,467.02	3,743.36	5,060.00	4,981.09	78.91	64.121	
12,900.00	7,870.00	8,187.18	7,917.47	73.47	41.03	-90.79	-7,467.04	3,743.32	4,967.08	4,888.19	78.89	62.960	
13,000.00	7,870.00	8,185.96	7,916.25	74.96	41.03	-90.75	-7,467.06	3,743.28	4,874.44	4,795.54	78.90	61.779	
13,100.00	7,870.00	13,100.00	7,898.64	76.47	54.36	-90.21	-7,467.41	3,742.72	4,782.15	4,689.08	93.07	51.384	
13,200.00	7,870.00	8,201.87	7,932.15	77.99	41.06	-91.24	-7,466.68	3,743.78	4,690.02	4,610.93	79.10	59.293	
13,300.00	7,870.00	8,198.67	7,928.95	79.51	41.06	-91.14	-7,466.75	3,743.68	4,598.34	4,519.12	79.21	58.052	
13,400.00	7,870.00	8,195.54	7,925.82	81.05	41.05	-91.05	-7,466.82	3,743.58	4,507.00	4,427.63	79.37	56.786	
13,500.00	7,870.00	8,192.49	7,922.77	82.59	41.04	-90.95	-7,466.89	3,743.48	4,416.04	4,336.46	79.57	55.496	
13,600.00	7,870.00	8,189.50	7,919.79	84.14	41.03	-90.86	-7,466.96	3,743.39	4,325.47	4,245.64	79.83	54.180	
13,700.00	7,870.00	8,186.59	7,916.88	85.70	41.02	-90.77	-7,467.02	3,743.29	4,235.33	4,155.17	80.15	52.840	
13,800.00	7,870.00	8,183.74	7,914.03	87.26	41.02	-90.68	-7,467.08	3,743.20	4,145.64	4,065.10	80.54	51.474	
13,900.00	7,870.00	8,180.96	7,911.25	88.83	41.01	-90.60	-7,467.14	3,743.12	4,056.43	3,975.43	80.99	50.085	
14,000.00	7,870.00	8,178.23	7,908.53	90.41	41.00	-90.51	-7,467.20	3,743.03	3,967.73	3,886.21	81.52	48.672	
14,100.00	7,870.00	8,175.57	7,905.86	92.00	40.99	-90.43	-7,467.25	3,742.95	3,879.58	3,797.45	82.13	47.237	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 74-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	8,172.96	7,903.26	93.59	40.99	-90.35	-7,467.31	3,742.87	3,792.01	3,709.19	82.83	45.782	
14,300.00	7,870.00	8,170.41	7,900.71	95.18	40.98	-90.27	-7,467.36	3,742.79	3,705.08	3,621.46	83.62	44.309	
14,400.00	7,870.00	8,167.91	7,898.22	96.79	40.97	-90.19	-7,467.41	3,742.71	3,618.82	3,534.31	84.51	42.820	
14,500.00	7,870.00	8,165.47	7,895.77	98.39	40.97	-90.12	-7,467.46	3,742.64	3,533.28	3,447.77	85.51	41.320	
14,600.00	7,870.00	8,163.08	7,893.38	100.00	40.96	-90.04	-7,467.51	3,742.56	3,448.52	3,361.90	86.62	39.811	
14,700.00	7,870.00	8,160.73	7,891.04	101.62	40.95	-89.97	-7,467.55	3,742.49	3,364.59	3,276.74	87.85	38.297	
14,800.00	7,870.00	8,158.43	7,888.74	103.24	40.95	-89.90	-7,467.60	3,742.42	3,281.56	3,192.35	89.21	36.783	
14,900.00	7,870.00	8,156.18	7,886.49	104.87	40.94	-89.83	-7,467.64	3,742.36	3,199.51	3,108.80	90.71	35.273	
15,000.00	7,870.00	8,153.98	7,884.29	106.50	40.94	-89.76	-7,467.68	3,742.29	3,118.50	3,026.16	92.34	33.772	
15,100.00	7,870.00	8,151.81	7,882.13	108.13	40.93	-89.69	-7,467.72	3,742.22	3,038.62	2,944.50	94.12	32.285	
15,200.00	7,870.00	8,149.69	7,880.01	109.77	40.92	-89.63	-7,467.76	3,742.16	2,959.96	2,863.91	96.05	30.817	
15,300.00	7,870.00	8,147.61	7,877.93	111.41	40.92	-89.56	-7,467.80	3,742.10	2,882.62	2,784.48	98.14	29.372	
15,400.00	7,870.00	8,145.58	7,875.89	113.05	40.91	-89.50	-7,467.84	3,742.04	2,806.71	2,706.31	100.40	27.956	
15,500.00	7,870.00	8,143.57	7,873.89	114.70	40.91	-89.44	-7,467.88	3,741.98	2,732.36	2,629.53	102.82	26.573	
15,600.00	7,870.00	8,141.61	7,871.93	116.35	40.90	-89.38	-7,467.91	3,741.92	2,659.68	2,554.26	105.42	25.228	
15,700.00	7,870.00	8,139.68	7,870.00	118.00	40.90	-89.32	-7,467.95	3,741.87	2,588.83	2,480.63	108.20	23.926	
15,800.00	7,870.00	8,137.79	7,868.11	119.66	40.89	-89.26	-7,467.98	3,741.81	2,519.95	2,408.79	111.16	22.670	
15,900.00	7,870.00	8,135.94	7,866.26	121.32	40.89	-89.20	-7,468.01	3,741.76	2,453.21	2,338.92	114.29	21.464	
16,000.00	7,870.00	8,134.11	7,864.44	122.98	40.88	-89.15	-7,468.04	3,741.70	2,388.80	2,271.19	117.61	20.312	
16,100.00	7,870.00	8,132.32	7,862.65	124.65	40.88	-89.09	-7,468.07	3,741.65	2,326.90	2,205.80	121.10	19.215	
16,200.00	7,870.00	8,130.56	7,860.89	126.32	40.87	-89.04	-7,468.10	3,741.60	2,267.71	2,142.96	124.75	18.178	
16,300.00	7,870.00	8,128.84	7,859.16	127.99	40.87	-88.98	-7,468.13	3,741.55	2,211.47	2,082.90	128.57	17.201	
16,400.00	7,870.00	8,127.14	7,857.47	129.66	40.86	-88.93	-7,468.16	3,741.50	2,158.40	2,025.87	132.53	16.286	
16,500.00	7,870.00	8,125.47	7,855.80	131.33	40.86	-88.88	-7,468.19	3,741.45	2,108.73	1,972.12	136.62	15.435	
16,600.00	7,870.00	8,123.83	7,854.16	133.01	40.85	-88.83	-7,468.22	3,741.41	2,062.72	1,921.92	140.81	14.649	
16,700.00	7,870.00	8,122.22	7,852.55	134.69	40.85	-88.78	-7,468.24	3,741.36	2,020.62	1,875.54	145.07	13.928	
16,800.00	7,870.00	8,120.64	7,850.97	136.37	40.85	-88.73	-7,468.27	3,741.32	1,982.66	1,833.28	149.38	13.272	
16,900.00	7,870.00	8,119.08	7,849.41	138.06	40.84	-88.68	-7,468.29	3,741.27	1,949.10	1,795.41	153.69	12.682	
17,000.00	7,870.00	8,117.55	7,847.88	139.74	40.84	-88.63	-7,468.32	3,741.23	1,920.17	1,762.20	157.96	12.156	
17,100.00	7,870.00	8,116.04	7,846.37	141.43	40.83	-88.59	-7,468.34	3,741.19	1,896.07	1,733.92	162.15	11.693	
17,200.00	7,870.00	8,114.56	7,844.89	143.12	40.83	-88.54	-7,468.36	3,741.14	1,877.00	1,710.80	166.20	11.294	
17,300.00	7,870.00	8,113.10	7,843.43	144.81	40.83	-88.50	-7,468.39	3,741.10	1,863.10	1,693.04	170.06	10.956	
17,400.00	7,870.00	8,111.66	7,842.00	146.50	40.82	-88.45	-7,468.41	3,741.06	1,854.50	1,680.81	173.69	10.677	
17,500.00	7,870.00	8,110.25	7,840.59	148.19	40.82	-88.41	-7,468.43	3,741.02	1,851.27	1,674.24	177.03	10.457	
17,509.90	7,870.00	8,110.11	7,840.45	148.36	40.82	-88.40	-7,468.43	3,741.02	1,851.24	1,673.89	177.35	10.439	CC
17,600.00	7,870.00	8,108.86	7,839.20	149.89	40.81	-88.37	-7,468.45	3,740.98	1,853.43	1,673.37	180.06	10.294	ES
17,700.00	7,870.00	8,107.50	7,837.83	151.59	40.81	-88.32	-7,468.47	3,740.95	1,860.97	1,678.24	182.73	10.184	
17,800.00	7,870.00	8,106.15	7,836.49	153.29	40.81	-88.28	-7,468.49	3,740.91	1,873.83	1,688.79	185.03	10.127	
17,900.00	7,870.00	8,104.82	7,835.16	154.99	40.80	-88.24	-7,468.51	3,740.87	1,891.89	1,704.94	186.95	10.120	SF
18,000.00	7,870.00	8,103.52	7,833.86	156.69	40.80	-88.20	-7,468.53	3,740.84	1,915.00	1,726.52	188.48	10.160	
18,100.00	7,870.00	8,102.23	7,832.57	158.39	40.80	-88.16	-7,468.55	3,740.80	1,943.00	1,753.36	189.64	10.246	
18,200.00	7,870.00	8,100.97	7,831.31	160.09	40.79	-88.12	-7,468.57	3,740.77	1,975.66	1,785.23	190.43	10.375	
18,300.00	7,870.00	8,099.72	7,830.06	161.80	40.79	-88.08	-7,468.58	3,740.73	2,012.77	1,821.87	190.89	10.544	
18,400.00	7,870.00	8,098.49	7,828.83	163.51	40.79	-88.04	-7,468.60	3,740.70	2,054.07	1,863.03	191.04	10.752	
18,455.45	7,870.00	8,097.82	7,828.16	164.45	40.78	-88.02	-7,468.61	3,740.68	2,078.70	1,887.69	191.01	10.883	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	161.68	-5,370.27	1,778.12	5,657.00				
100.00	100.00	50.59	50.59	0.13	0.08	161.68	-5,370.51	1,778.00	5,657.33	5,657.11	0.21	N/A	
200.00	200.00	158.50	158.49	0.49	0.38	161.70	-5,371.96	1,777.00	5,658.34	5,657.47	0.88	6,456.099	
300.00	300.00	253.31	253.29	0.85	0.72	161.71	-5,372.88	1,775.77	5,658.86	5,657.28	1.57	3,593.866	
400.00	400.00	347.51	347.47	1.21	1.06	161.73	-5,374.05	1,774.54	5,659.62	5,657.35	2.27	2,491.179	
500.00	500.00	410.71	410.64	1.57	1.29	161.74	-5,375.09	1,773.43	5,660.68	5,657.82	2.86	1,980.044	
600.00	600.00	456.00	455.90	1.93	1.46	161.76	-5,376.36	1,772.12	5,662.53	5,659.15	3.38	1,674.603	
700.00	700.00	512.49	512.30	2.29	1.67	161.79	-5,378.65	1,769.93	5,665.22	5,661.28	3.95	1,435.249	
800.00	800.00	549.00	548.72	2.64	1.80	161.81	-5,380.57	1,768.19	5,668.88	5,664.44	4.44	1,277.047	
900.00	900.00	602.54	602.07	3.00	2.00	161.85	-5,384.04	1,765.31	5,673.47	5,668.47	5.00	1,135.446	
1,000.00	1,000.00	640.00	639.35	3.36	2.15	161.88	-5,386.94	1,763.10	5,679.09	5,673.59	5.49	1,033.836	
1,100.00	1,100.00	689.61	688.66	3.72	2.34	161.92	-5,391.38	1,759.90	5,685.68	5,679.64	6.04	941.522	
1,200.00	1,200.00	732.00	730.72	4.08	2.51	161.96	-5,395.72	1,756.92	5,693.27	5,686.71	6.56	868.441	
1,300.00	1,300.00	775.02	773.33	4.44	2.69	162.01	-5,400.64	1,753.63	5,701.86	5,694.78	7.08	805.481	
1,400.00	1,399.98	825.00	822.72	4.79	2.89	118.95	-5,407.06	1,749.45	5,712.32	5,704.69	7.63	748.930	
1,500.00	1,499.84	861.21	858.41	5.15	3.05	118.79	-5,412.16	1,746.14	5,725.42	5,717.30	8.12	704.749	
1,600.00	1,599.45	919.00	915.21	5.51	3.30	118.64	-5,421.04	1,740.27	5,741.18	5,732.46	8.71	658.962	
1,700.00	1,698.70	957.60	953.04	5.87	3.48	118.42	-5,427.42	1,735.95	5,759.42	5,750.19	9.23	623.981	
1,800.00	1,797.47	1,012.00	1,006.19	6.24	3.74	118.21	-5,436.90	1,729.35	5,780.12	5,770.30	9.82	588.425	
1,900.00	1,895.62	1,052.05	1,045.19	6.63	3.93	117.93	-5,444.32	1,724.05	5,803.32	5,792.95	10.37	559.559	
2,000.00	1,993.06	1,106.00	1,097.48	7.04	4.20	117.68	-5,455.08	1,716.22	5,829.15	5,818.15	10.99	530.195	
2,100.00	2,089.64	1,186.84	1,175.57	7.48	4.62	117.52	-5,471.72	1,703.59	5,857.19	5,845.41	11.78	497.320	
2,200.00	2,185.27	1,232.00	1,219.14	7.94	4.86	117.17	-5,481.13	1,696.36	5,887.21	5,874.80	12.41	474.525	
2,300.00	2,279.82	1,262.15	1,248.21	8.45	5.03	116.71	-5,487.67	1,691.74	5,919.79	5,906.81	12.98	456.039	
2,400.00	2,373.17	1,328.95	1,312.73	8.99	5.38	116.39	-5,502.26	1,682.41	5,954.73	5,940.96	13.76	432.687	
2,500.00	2,465.21	1,471.47	1,450.88	9.58	6.14	116.45	-5,532.05	1,664.05	5,990.92	5,975.97	14.95	400.859	
2,574.08	2,532.50	1,520.72	1,498.61	10.04	6.41	116.19	-5,542.20	1,657.37	6,018.71	6,003.15	15.56	386.702	
2,600.00	2,555.89	1,534.38	1,511.83	10.21	6.48	116.26	-5,545.06	1,655.47	6,028.67	6,012.90	15.77	382.371	
2,700.00	2,646.16	1,584.00	1,559.79	10.88	6.75	116.55	-5,555.59	1,648.33	6,067.54	6,051.00	16.54	366.900	
2,800.00	2,736.44	1,628.95	1,603.16	11.57	7.00	116.81	-5,565.39	1,641.71	6,107.22	6,089.92	17.30	353.048	
2,900.00	2,826.71	1,678.00	1,650.41	12.27	7.28	117.09	-5,576.36	1,634.49	6,147.75	6,129.66	18.09	339.873	
3,000.00	2,916.98	1,764.78	1,734.03	13.00	7.77	117.58	-5,595.86	1,621.89	6,188.83	6,169.75	19.08	324.320	
3,100.00	3,007.25	2,087.59	2,047.13	13.73	9.52	119.34	-5,660.45	1,577.31	6,228.12	6,206.84	21.28	292.612	
3,200.00	3,097.52	2,164.64	2,122.17	14.48	9.93	119.75	-5,674.37	1,566.72	6,266.71	6,244.49	22.23	281.952	
3,300.00	3,187.80	2,205.13	2,161.54	15.23	10.15	119.96	-5,681.89	1,560.98	6,306.02	6,283.03	22.99	274.346	
3,400.00	3,278.07	2,240.00	2,195.38	15.99	10.34	120.15	-5,688.58	1,555.93	6,346.17	6,322.46	23.71	267.605	
3,500.00	3,368.34	2,290.40	2,244.28	16.76	10.61	120.41	-5,698.49	1,548.81	6,387.11	6,362.59	24.52	260.472	
3,600.00	3,458.61	2,338.45	2,290.93	17.54	10.87	120.66	-5,708.13	1,542.53	6,428.81	6,403.50	25.31	253.967	
3,700.00	3,548.89	2,508.42	2,456.10	18.32	11.79	121.52	-5,741.43	1,520.14	6,470.52	6,443.79	26.73	242.081	
3,800.00	3,639.16	2,566.08	2,512.23	19.10	12.10	121.81	-5,752.32	1,512.67	6,512.02	6,484.45	27.56	236.243	
3,900.00	3,729.43	2,615.00	2,559.77	19.89	12.36	122.05	-5,761.82	1,506.16	6,554.22	6,525.87	28.35	231.171	
4,000.00	3,819.70	2,691.18	2,633.74	20.69	12.77	122.43	-5,776.81	1,495.80	6,596.93	6,567.65	29.28	225.303	
4,100.00	3,909.98	3,032.06	2,966.58	21.48	14.53	124.05	-5,836.08	1,452.44	6,637.66	6,606.13	31.53	210.534	
4,200.00	4,000.25	3,084.00	3,017.53	22.28	14.79	124.28	-5,844.10	1,446.35	6,677.88	6,645.57	32.32	206.637	
4,300.00	4,090.52	3,124.82	3,057.54	23.08	14.99	124.47	-5,850.61	1,441.61	6,718.83	6,685.78	33.05	203.305	
4,400.00	4,180.79	3,178.00	3,109.56	23.88	15.26	124.71	-5,859.80	1,435.43	6,760.88	6,727.04	33.83	199.819	
4,500.00	4,271.06	3,178.00	3,109.56	24.69	15.26	124.71	-5,859.80	1,435.43	6,803.53	6,769.17	34.35	198.056	
4,600.00	4,361.34	3,226.30	3,156.70	25.49	15.51	124.92	-5,868.64	1,429.76	6,847.08	6,811.98	35.11	195.041	
4,700.00	4,451.61	3,273.77	3,202.99	26.30	15.76	125.14	-5,877.55	1,424.08	6,891.28	6,855.43	35.85	192.221	
4,800.00	4,541.88	3,344.72	3,272.03	27.11	16.14	125.46	-5,891.10	1,414.95	6,935.96	6,899.24	36.72	188.897	
4,900.00	4,632.15	3,395.64	3,321.48	27.92	16.42	125.69	-5,900.95	1,407.84	6,981.08	6,943.60	37.48	186.276	
5,000.00	4,722.43	3,438.58	3,363.14	28.74	16.65	125.89	-5,909.46	1,401.86	7,026.85	6,988.66	38.19	183.999	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	3,459.00	3,382.94	29.55	16.76	125.98	-5,913.58	1,399.04	7,073.33	7,034.55	38.77	182.421	
5,200.00	4,902.97	3,494.39	3,417.21	30.37	16.96	126.14	-5,920.96	1,394.23	7,120.57	7,081.13	39.43	180.570	
5,300.00	4,993.24	3,517.42	3,439.48	31.18	17.09	126.24	-5,925.97	1,391.16	7,168.68	7,128.66	40.02	179.131	
5,400.00	5,083.51	3,553.00	3,473.82	32.00	17.29	126.40	-5,934.05	1,386.53	7,217.64	7,176.98	40.67	177.482	
5,500.00	5,173.79	5,297.17	5,189.53	32.82	24.63	132.54	-6,138.58	1,257.06	7,267.12	7,218.38	48.74	149.091	
5,600.00	5,264.06	5,372.42	5,264.78	33.63	24.80	132.73	-6,138.51	1,257.69	7,297.73	7,248.20	49.53	147.354	
5,700.00	5,354.33	5,501.61	5,393.96	34.45	25.11	133.06	-6,137.95	1,258.66	7,328.16	7,277.70	50.46	145.213	
5,800.00	5,444.60	5,614.46	5,506.81	35.27	25.38	133.34	-6,137.03	1,259.35	7,358.37	7,307.01	51.36	143.275	
5,900.00	5,534.88	5,727.92	5,620.26	36.09	25.65	133.63	-6,135.77	1,259.68	7,388.42	7,336.17	52.26	141.386	
6,000.00	5,625.15	5,843.77	5,736.10	36.91	25.93	133.92	-6,134.09	1,260.09	7,418.29	7,365.12	53.16	139.535	
6,100.00	5,715.42	5,952.36	5,844.67	37.74	26.20	134.18	-6,132.21	1,260.33	7,448.01	7,393.96	54.05	137.795	
6,200.00	5,805.69	6,047.96	5,940.26	38.56	26.44	134.42	-6,130.40	1,260.33	7,477.69	7,422.79	54.90	136.202	
6,300.00	5,895.96	6,145.76	6,038.03	39.38	26.69	134.66	-6,128.51	1,260.05	7,507.47	7,451.71	55.76	134.639	
6,400.00	5,986.24	6,252.00	6,144.25	40.20	26.96	134.93	-6,126.28	1,259.65	7,537.20	7,480.56	56.65	133.060	
6,500.00	6,076.51	6,344.68	6,236.91	41.03	27.20	135.15	-6,124.21	1,259.32	7,566.93	7,509.44	57.49	131.625	
6,600.00	6,166.78	6,462.47	6,354.66	41.85	27.50	135.44	-6,121.41	1,258.78	7,596.65	7,538.24	58.41	130.057	
6,700.00	6,257.05	6,572.44	6,464.59	42.67	27.79	135.70	-6,118.43	1,258.45	7,626.18	7,566.87	59.31	128.590	
6,800.00	6,347.33	6,645.61	6,537.74	43.50	27.97	135.87	-6,116.49	1,258.59	7,655.85	7,595.76	60.08	127.417	
6,900.00	6,437.60	6,716.09	6,608.19	44.32	28.16	136.04	-6,114.77	1,258.91	7,685.81	7,624.95	60.85	126.301	
7,000.00	6,527.87	6,799.76	6,691.84	45.15	28.38	136.23	-6,112.90	1,259.31	7,716.06	7,654.40	61.66	125.135	
7,100.00	6,618.14	6,879.04	6,771.10	45.98	28.58	136.41	-6,111.18	1,259.67	7,746.48	7,684.03	62.46	124.030	
7,200.00	6,708.41	6,964.49	6,856.53	46.80	28.81	136.61	-6,109.49	1,259.92	7,777.18	7,713.91	63.27	122.920	
7,300.00	6,798.69	7,066.42	6,958.44	47.63	29.08	136.83	-6,107.37	1,260.63	7,807.87	7,743.73	64.14	121.737	
7,400.00	6,888.96	7,162.40	7,054.40	48.45	29.34	137.04	-6,105.33	1,261.44	7,838.61	7,773.62	64.98	120.624	
7,500.00	6,979.23	7,250.68	7,142.65	49.28	29.58	137.24	-6,103.38	1,262.28	7,869.37	7,803.57	65.80	119.588	
7,600.00	7,069.50	7,337.22	7,229.16	50.11	29.81	137.42	-6,101.62	1,263.24	7,900.36	7,833.75	66.62	118.593	
7,692.09	7,152.63	7,462.02	7,353.92	50.87	30.15	137.69	-6,098.77	1,264.97	7,928.78	7,861.26	67.52	117.434	
7,700.00	7,159.79	7,474.09	7,365.98	50.93	30.18	136.48	-6,098.46	1,265.18	7,931.15	7,863.55	67.60	117.327	
7,750.00	7,205.70	7,531.12	7,422.99	51.32	30.33	127.46	-6,096.92	1,266.31	7,943.64	7,875.59	68.05	116.734	
7,800.00	7,252.52	7,581.58	7,473.41	51.66	30.47	115.77	-6,095.55	1,267.54	7,951.88	7,883.40	68.48	116.128	
7,850.00	7,299.89	7,629.98	7,521.77	51.96	30.59	101.60	-6,094.23	1,268.90	7,955.81	7,886.92	68.89	115.490	
7,900.00	7,347.44	7,678.11	7,569.86	52.20	30.72	86.34	-6,092.93	1,270.45	7,955.41	7,886.12	69.29	114.819	
7,950.00	7,394.83	7,739.12	7,630.82	52.39	30.88	72.15	-6,091.24	1,272.50	7,950.65	7,880.94	69.71	114.049	
8,000.00	7,441.68	8,000.00	7,675.65	52.53	31.58	60.43	-6,089.93	1,273.95	7,941.55	7,870.83	70.72	112.293	
8,050.00	7,487.65	7,812.36	7,703.99	52.62	31.08	51.40	-6,089.13	1,274.73	7,928.30	7,857.96	70.35	112.705	
8,100.00	7,532.37	7,837.29	7,728.91	52.67	31.15	44.67	-6,088.49	1,275.31	7,911.06	7,840.46	70.59	112.064	
8,150.00	7,575.52	8,111.70	8,002.92	52.67	31.88	40.33	-6,078.02	1,284.49	7,889.29	7,817.64	71.65	110.113	
8,200.00	7,616.76	8,138.11	8,029.27	52.63	31.95	36.70	-6,076.67	1,285.77	7,863.12	7,791.26	71.87	109.410	
8,250.00	7,655.77	8,156.00	8,047.11	52.55	32.00	34.03	-6,075.78	1,286.62	7,833.46	7,761.41	72.05	108.728	
8,300.00	7,692.27	8,180.18	8,071.24	52.44	32.06	32.18	-6,074.63	1,287.69	7,800.50	7,728.27	72.23	107.996	
8,350.00	7,725.97	8,197.21	8,088.24	52.29	32.11	30.95	-6,073.85	1,288.36	7,764.50	7,692.13	72.38	107.281	
8,400.00	7,756.62	8,212.58	8,103.58	52.12	32.15	30.33	-6,073.17	1,288.92	7,725.72	7,653.21	72.50	106.557	
8,450.00	7,783.98	8,226.18	8,117.16	51.92	32.19	30.30	-6,072.59	1,289.36	7,684.41	7,611.80	72.61	105.828	
8,500.00	7,807.85	8,250.00	8,140.95	51.70	32.25	31.07	-6,071.61	1,290.02	7,640.91	7,568.16	72.75	105.036	
8,550.00	7,828.05	8,250.00	8,140.95	51.45	32.25	32.62	-6,071.61	1,290.02	7,595.46	7,522.67	72.79	104.344	
8,600.00	7,844.41	8,258.16	8,149.11	51.20	32.27	35.78	-6,071.29	1,290.23	7,548.45	7,475.59	72.86	103.602	
8,650.00	7,856.82	8,266.65	8,157.59	50.93	32.30	41.93	-6,070.96	1,290.44	7,500.19	7,427.27	72.92	102.851	
8,700.00	7,865.18	8,271.86	8,162.79	50.65	32.31	55.26	-6,070.75	1,290.57	7,451.06	7,378.09	72.97	102.108	
8,750.00	7,869.43	8,273.74	8,164.66	50.36	32.32	88.56	-6,070.68	1,290.62	7,401.42	7,328.42	73.01	101.377	
8,776.25	7,870.00	8,273.37	8,164.30	50.21	32.31	116.56	-6,070.69	1,290.61	7,375.28	7,302.26	73.02	100.999	
8,800.00	7,870.00	8,272.63	8,163.56	50.08	32.31	116.51	-6,070.72	1,290.59	7,351.64	7,278.60	73.03	100.660	
8,900.00	7,870.00	8,269.47	8,160.40	49.53	32.30	116.26	-6,070.84	1,290.51	7,252.06	7,178.98	73.08	99.228	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 92-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	8,266.30	8,157.23	49.01	32.30	116.02	-6,070.97	1,290.43	7,152.50	7,079.36	73.14	97.796	
9,100.00	7,870.00	8,263.11	8,154.05	48.52	32.29	115.77	-6,071.09	1,290.35	7,052.95	6,979.76	73.19	96.362	
9,200.00	7,870.00	8,259.90	8,150.85	48.06	32.28	115.52	-6,071.22	1,290.27	6,953.41	6,880.16	73.25	94.926	
9,300.00	7,870.00	8,256.68	8,147.63	47.63	32.27	115.27	-6,071.35	1,290.19	6,853.88	6,780.57	73.31	93.490	
9,400.00	7,870.00	8,253.45	8,144.40	47.22	32.26	115.02	-6,071.48	1,290.11	6,754.37	6,680.99	73.38	92.052	
9,500.00	7,870.00	8,250.00	8,140.95	46.83	32.25	114.75	-6,071.61	1,290.02	6,654.86	6,581.42	73.44	90.615	
9,600.00	7,870.00	8,250.00	8,140.95	46.48	32.25	114.75	-6,071.61	1,290.02	6,555.37	6,481.85	73.52	89.160	
9,700.00	7,870.00	8,250.00	8,140.95	46.14	32.25	114.75	-6,071.61	1,290.02	6,455.90	6,382.29	73.61	87.704	
9,800.00	7,870.00	8,250.00	8,140.95	45.83	32.25	114.75	-6,071.61	1,290.02	6,356.44	6,282.74	73.70	86.248	
9,900.00	7,870.00	8,250.00	8,140.95	45.54	32.25	114.75	-6,071.61	1,290.02	6,257.00	6,183.21	73.79	84.790	
10,000.00	7,870.00	8,250.00	8,140.95	45.27	32.25	114.75	-6,071.61	1,290.02	6,157.58	6,083.69	73.89	83.332	
10,100.00	7,870.00	8,250.00	8,140.95	45.03	32.25	114.75	-6,071.61	1,290.02	6,058.18	5,984.18	73.99	81.873	
10,200.00	7,870.00	8,234.05	8,125.03	44.82	32.21	113.48	-6,072.26	1,289.59	5,958.76	5,884.72	74.04	80.483	
10,300.00	7,870.00	8,231.65	8,122.63	44.66	32.20	113.28	-6,072.36	1,289.52	5,859.38	5,785.24	74.14	79.032	
10,400.00	7,870.00	8,229.22	8,120.20	44.56	32.19	113.09	-6,072.46	1,289.45	5,760.03	5,685.78	74.25	77.581	
10,500.00	7,870.00	8,226.76	8,117.75	44.58	32.19	112.89	-6,072.56	1,289.37	5,660.69	5,586.34	74.36	76.130	
10,600.00	7,870.00	8,224.28	8,115.26	44.82	32.18	112.68	-6,072.67	1,289.30	5,561.38	5,486.91	74.47	74.678	
10,700.00	7,870.00	8,221.76	8,112.75	45.36	32.17	112.48	-6,072.77	1,289.22	5,462.09	5,387.50	74.59	73.225	
10,800.00	7,870.00	8,219.21	8,110.20	46.15	32.17	112.27	-6,072.88	1,289.14	5,362.83	5,288.11	74.72	71.772	
10,900.00	7,870.00	8,216.63	8,107.63	47.09	32.16	112.06	-6,072.99	1,289.05	5,263.59	5,188.74	74.85	70.318	
11,000.00	7,870.00	8,214.02	8,105.03	48.13	32.15	111.84	-6,073.11	1,288.96	5,164.38	5,089.39	74.99	68.865	
11,100.00	7,870.00	8,211.38	8,102.39	49.22	32.15	111.63	-6,073.22	1,288.87	5,065.20	4,990.06	75.14	67.411	
11,200.00	7,870.00	8,208.71	8,099.72	50.37	32.14	111.40	-6,073.34	1,288.78	4,966.05	4,890.75	75.29	65.956	
11,300.00	7,870.00	8,206.01	8,097.02	51.55	32.13	111.18	-6,073.46	1,288.69	4,866.93	4,791.47	75.45	64.502	
11,400.00	7,870.00	8,203.27	8,094.29	52.76	32.12	110.95	-6,073.58	1,288.59	4,767.84	4,692.22	75.62	63.047	
11,500.00	7,870.00	8,200.49	8,091.52	54.00	32.12	110.72	-6,073.70	1,288.49	4,668.79	4,592.99	75.80	61.593	
11,600.00	7,870.00	8,197.69	8,088.72	55.27	32.11	110.49	-6,073.83	1,288.38	4,569.78	4,493.79	75.99	60.138	
11,700.00	7,870.00	8,194.85	8,085.88	56.56	32.10	110.25	-6,073.95	1,288.28	4,470.81	4,394.63	76.19	58.684	
11,800.00	7,870.00	8,191.97	8,083.00	57.88	32.09	110.00	-6,074.08	1,288.16	4,371.89	4,295.49	76.39	57.229	
11,900.00	7,870.00	8,189.05	8,080.09	59.21	32.09	109.76	-6,074.22	1,288.05	4,273.01	4,196.40	76.61	55.775	
12,000.00	7,870.00	8,186.10	8,077.15	60.57	32.08	109.51	-6,074.35	1,287.93	4,174.18	4,097.34	76.84	54.321	
12,100.00	7,870.00	8,183.11	8,074.16	61.94	32.07	109.25	-6,074.49	1,287.81	4,075.41	3,998.32	77.09	52.868	
12,200.00	7,870.00	8,180.08	8,071.14	63.33	32.06	109.00	-6,074.63	1,287.69	3,976.69	3,899.35	77.34	51.415	
12,300.00	7,870.00	8,177.01	8,068.08	64.74	32.05	108.73	-6,074.78	1,287.56	3,878.04	3,800.42	77.62	49.963	
12,400.00	7,870.00	8,173.90	8,064.97	66.16	32.05	108.47	-6,074.92	1,287.43	3,779.45	3,701.54	77.91	48.512	
12,500.00	7,870.00	8,170.75	8,061.83	67.59	32.04	108.20	-6,075.07	1,287.29	3,680.93	3,602.72	78.22	47.061	
12,600.00	7,870.00	8,167.56	8,058.65	69.04	32.03	107.92	-6,075.22	1,287.15	3,582.50	3,503.95	78.54	45.612	
12,700.00	7,870.00	8,156.00	8,047.11	70.51	32.00	106.92	-6,075.78	1,286.62	3,484.16	3,405.32	78.84	44.193	
12,800.00	7,870.00	8,156.00	8,047.11	71.98	32.00	106.92	-6,075.78	1,286.62	3,385.89	3,306.66	79.23	42.734	
12,900.00	7,870.00	8,156.00	8,047.11	73.47	32.00	106.92	-6,075.78	1,286.62	3,287.72	3,208.07	79.65	41.277	
13,000.00	7,870.00	8,154.05	8,045.17	74.96	31.99	106.75	-6,075.88	1,286.53	3,189.67	3,109.59	80.08	39.829	
13,100.00	7,870.00	8,150.01	8,041.14	76.47	31.98	106.39	-6,076.08	1,286.34	3,091.74	3,011.20	80.54	38.389	
13,200.00	7,870.00	8,145.93	8,037.07	77.99	31.97	106.04	-6,076.28	1,286.14	2,993.93	2,912.91	81.02	36.952	
13,300.00	7,870.00	8,141.81	8,032.95	79.51	31.96	105.67	-6,076.49	1,285.95	2,896.27	2,814.73	81.55	35.517	
13,400.00	7,870.00	8,137.64	8,028.79	81.05	31.95	105.31	-6,076.69	1,285.75	2,798.77	2,716.66	82.11	34.085	
13,500.00	7,870.00	8,133.43	8,024.59	82.59	31.94	104.93	-6,076.91	1,285.54	2,701.44	2,618.72	82.72	32.657	
13,600.00	7,870.00	8,129.16	8,020.34	84.14	31.93	104.55	-6,077.12	1,285.34	2,604.31	2,520.92	83.38	31.232	
13,700.00	7,870.00	8,124.86	8,016.04	85.70	31.92	104.17	-6,077.34	1,285.13	2,507.39	2,423.29	84.11	29.812	
13,800.00	7,870.00	8,120.50	8,011.70	87.26	31.91	103.78	-6,077.56	1,284.92	2,410.72	2,325.83	84.89	28.398	
13,900.00	7,870.00	8,116.10	8,007.30	88.83	31.89	103.39	-6,077.79	1,284.71	2,314.32	2,228.57	85.75	26.989	
14,000.00	7,870.00	8,111.64	8,002.86	90.41	31.88	102.99	-6,078.02	1,284.49	2,218.22	2,131.53	86.69	25.587	
14,100.00	7,870.00	8,107.14	7,998.37	92.00	31.87	102.58	-6,078.26	1,284.27	2,122.48	2,034.75	87.73	24.193	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	8,102.58	7,993.82	93.59	31.86	102.17	-6,078.49	1,284.05	2,027.14	1,938.26	88.87	22.809	
14,300.00	7,870.00	8,097.97	7,989.23	95.18	31.85	101.76	-6,078.74	1,283.82	1,932.25	1,842.11	90.14	21.436	
14,400.00	7,870.00	8,093.31	7,984.58	96.79	31.84	101.33	-6,078.98	1,283.59	1,837.90	1,746.35	91.55	20.075	
14,500.00	7,870.00	8,088.60	7,979.88	98.39	31.82	100.91	-6,079.23	1,283.35	1,744.16	1,651.03	93.12	18.730	
14,600.00	7,870.00	8,083.83	7,975.12	100.00	31.81	100.47	-6,079.49	1,283.12	1,651.13	1,556.25	94.88	17.402	
14,700.00	7,870.00	8,079.01	7,970.31	101.62	31.80	100.03	-6,079.75	1,282.88	1,558.96	1,462.10	96.86	16.095	
14,800.00	7,870.00	8,074.13	7,965.44	103.24	31.79	99.59	-6,080.01	1,282.63	1,467.79	1,368.70	99.09	14.812	
14,900.00	7,870.00	8,075.80	7,967.11	104.87	31.79	99.74	-6,079.89	1,282.74	1,377.81	1,276.12	101.69	13.549	
15,000.00	7,870.00	8,066.54	7,957.88	106.50	31.77	98.89	-6,080.42	1,282.25	1,289.33	1,184.81	104.51	12.337	
15,100.00	7,870.00	8,057.88	7,949.24	108.13	31.74	98.10	-6,080.90	1,281.81	1,202.61	1,094.87	107.74	11.162	
15,200.00	7,870.00	8,049.76	7,941.15	109.77	31.72	97.35	-6,081.34	1,281.41	1,118.06	1,006.65	111.42	10.035	
15,300.00	7,870.00	8,042.14	7,933.54	111.41	31.70	96.64	-6,081.74	1,281.05	1,036.24	920.63	115.61	8.963	
15,400.00	7,870.00	8,034.96	7,926.38	113.05	31.68	95.98	-6,082.10	1,280.72	957.83	837.48	120.36	7.958	
15,500.00	7,870.00	8,028.19	7,919.63	114.70	31.67	95.36	-6,082.43	1,280.42	883.76	758.09	125.67	7.032	
15,600.00	7,870.00	8,021.80	7,913.25	116.35	31.65	94.76	-6,082.74	1,280.14	815.19	683.71	131.49	6.200	
15,700.00	7,870.00	8,015.76	7,907.22	118.00	31.63	94.20	-6,083.02	1,279.89	753.66	616.03	137.63	5.476	
15,800.00	7,870.00	8,010.03	7,901.50	119.66	31.62	93.67	-6,083.27	1,279.65	701.00	557.30	143.70	4.878	
15,900.00	7,870.00	8,004.60	7,896.08	121.32	31.60	93.17	-6,083.51	1,279.44	659.36	510.29	149.07	4.423	
16,000.00	7,870.00	7,999.44	7,890.92	122.98	31.59	92.69	-6,083.73	1,279.24	630.92	478.03	152.89	4.127	
16,100.00	7,870.00	7,994.53	7,886.02	124.65	31.58	92.23	-6,083.94	1,279.06	617.52	463.23	154.29	4.002	
16,133.84	7,870.00	7,992.92	7,884.42	125.21	31.57	92.08	-6,084.00	1,279.00	616.59	462.47	154.12	4.001	CC, ES, SF
16,200.00	7,870.00	7,989.85	7,881.36	126.32	31.56	91.80	-6,084.13	1,278.89	620.12	467.32	152.80	4.058	
16,300.00	7,870.00	7,985.40	7,876.91	127.99	31.55	91.39	-6,084.31	1,278.73	638.55	489.96	148.58	4.298	
16,400.00	7,870.00	7,981.14	7,872.66	129.66	31.54	90.99	-6,084.47	1,278.58	671.49	529.12	142.36	4.717	
16,500.00	7,870.00	7,977.08	7,868.60	131.33	31.53	90.61	-6,084.63	1,278.45	716.95	581.85	135.10	5.307	
16,600.00	7,870.00	7,973.21	7,864.74	133.01	31.52	90.25	-6,084.77	1,278.32	772.73	645.11	127.62	6.055	
16,700.00	7,870.00	7,969.49	7,861.02	134.69	31.51	89.91	-6,084.91	1,278.20	836.76	716.28	120.48	6.945	
16,800.00	7,870.00	7,965.88	7,857.42	136.37	31.50	89.57	-6,085.03	1,278.09	907.31	793.33	113.98	7.960	
16,900.00	7,870.00	7,962.38	7,853.92	138.06	31.49	89.25	-6,085.16	1,277.98	982.97	874.75	108.22	9.083	
17,000.00	7,870.00	7,958.98	7,850.52	139.74	31.48	88.93	-6,085.27	1,277.88	1,062.64	959.44	103.20	10.296	
17,100.00	7,870.00	7,955.67	7,847.21	141.43	31.47	88.63	-6,085.39	1,277.78	1,145.50	1,046.62	98.88	11.585	
17,200.00	7,870.00	7,952.46	7,844.01	143.12	31.46	88.33	-6,085.49	1,277.69	1,230.90	1,135.73	95.17	12.933	
17,300.00	7,870.00	7,949.33	7,840.89	144.81	31.46	88.04	-6,085.60	1,277.60	1,318.35	1,226.35	92.00	14.330	
17,400.00	7,870.00	7,946.30	7,837.85	146.50	31.45	87.76	-6,085.70	1,277.52	1,407.46	1,318.17	89.29	15.763	
17,500.00	7,870.00	7,943.34	7,834.90	148.19	31.44	87.49	-6,085.79	1,277.44	1,497.94	1,410.98	86.97	17.224	
17,600.00	7,870.00	7,940.46	7,832.02	149.89	31.43	87.22	-6,085.88	1,277.36	1,589.56	1,504.58	84.98	18.706	
17,700.00	7,870.00	7,937.66	7,829.22	151.59	31.42	86.96	-6,085.97	1,277.29	1,682.12	1,598.85	83.27	20.201	
17,800.00	7,870.00	7,934.93	7,826.50	153.29	31.42	86.71	-6,086.05	1,277.22	1,775.49	1,693.69	81.80	21.705	
17,900.00	7,870.00	7,932.27	7,823.84	154.99	31.41	86.47	-6,086.14	1,277.15	1,869.54	1,789.01	80.53	23.214	
18,000.00	7,870.00	7,929.68	7,821.25	156.69	31.40	86.23	-6,086.21	1,277.08	1,964.17	1,884.73	79.44	24.725	
18,100.00	7,870.00	7,927.15	7,818.72	158.39	31.40	86.00	-6,086.29	1,277.02	2,059.31	1,980.82	78.49	26.235	
18,200.00	7,870.00	7,924.69	7,816.26	160.09	31.39	85.77	-6,086.36	1,276.96	2,154.88	2,077.21	77.67	27.743	
18,300.00	7,870.00	7,922.28	7,813.86	161.80	31.38	85.55	-6,086.43	1,276.91	2,250.84	2,173.88	76.96	29.246	
18,400.00	7,870.00	7,919.94	7,811.51	163.51	31.38	85.33	-6,086.50	1,276.85	2,347.13	2,270.79	76.34	30.745	
18,455.45	7,870.00	7,918.66	7,810.23	164.45	31.37	85.21	-6,086.54	1,276.82	2,400.65	2,324.62	76.03	31.574	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 92-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	161.71	-5,381.20	1,778.12	5,667.37				
100.00	100.00	108.60	108.60	0.13	0.20	161.71	-5,381.00	1,778.05	5,667.17	5,666.84	0.33	N/A	
177.98	177.98	170.98	170.98	0.41	0.42	161.71	-5,380.87	1,778.18	5,667.07	5,666.23	0.83	6,801.877	
200.00	200.00	185.00	185.00	0.49	0.47	161.71	-5,380.85	1,778.24	5,667.08	5,666.12	0.96	5,894.787	
300.00	300.00	226.49	226.49	0.85	0.61	161.71	-5,380.97	1,778.71	5,667.72	5,666.25	1.47	3,865.017	
400.00	400.00	274.00	273.98	1.21	0.78	161.70	-5,381.49	1,779.86	5,669.44	5,667.44	1.99	2,846.381	
500.00	500.00	305.72	305.68	1.57	0.90	161.69	-5,382.06	1,781.04	5,672.19	5,669.73	2.46	2,301.525	
600.00	600.00	365.00	364.84	1.93	1.11	161.66	-5,383.56	1,784.24	5,676.12	5,673.08	3.03	1,870.978	
700.00	700.00	365.00	364.84	2.29	1.11	161.66	-5,383.56	1,784.24	5,681.01	5,677.62	3.39	1,674.671	
800.00	800.00	419.41	419.08	2.64	1.31	161.63	-5,385.57	1,788.08	5,686.95	5,683.00	3.95	1,440.630	
900.00	900.00	456.00	455.51	3.00	1.45	161.61	-5,387.34	1,791.01	5,694.08	5,689.65	4.44	1,283.524	
1,000.00	1,000.00	496.39	495.67	3.36	1.61	161.58	-5,389.57	1,794.79	5,702.29	5,697.35	4.94	1,153.509	
1,100.00	1,100.00	549.00	547.82	3.72	1.81	161.53	-5,392.73	1,800.87	5,711.56	5,706.06	5.49	1,039.544	
1,200.00	1,200.00	574.76	573.30	4.08	1.92	161.51	-5,394.43	1,804.24	5,721.81	5,715.87	5.95	962.091	
1,300.00	1,300.00	611.30	609.39	4.44	2.07	161.47	-5,397.10	1,809.27	5,733.19	5,726.75	6.44	890.158	
1,400.00	1,399.98	640.00	637.70	4.79	2.19	118.26	-5,399.42	1,813.43	5,746.50	5,739.60	6.90	832.888	
1,500.00	1,499.84	686.62	683.58	5.15	2.40	117.94	-5,403.59	1,820.54	5,762.46	5,755.03	7.43	775.124	
1,600.00	1,599.45	732.00	728.14	5.51	2.60	117.59	-5,408.09	1,827.87	5,781.09	5,773.13	7.96	725.970	
1,700.00	1,698.70	732.00	728.14	5.87	2.60	117.20	-5,408.09	1,827.87	5,802.51	5,794.20	8.31	698.454	
1,800.00	1,797.47	791.89	786.72	6.24	2.89	116.76	-5,414.74	1,838.40	5,826.20	5,817.28	8.92	653.487	
1,900.00	1,895.62	825.00	818.97	6.63	3.05	116.28	-5,418.78	1,844.73	5,852.66	5,843.24	9.42	621.616	
2,000.00	1,993.06	862.52	855.40	7.04	3.24	115.76	-5,423.63	1,852.27	5,881.60	5,871.65	9.96	590.809	
2,100.00	2,089.64	919.00	910.05	7.48	3.54	115.21	-5,431.43	1,864.20	5,913.00	5,902.40	10.60	558.013	
2,200.00	2,185.27	948.39	938.41	7.94	3.70	114.60	-5,435.67	1,870.64	5,946.53	5,935.39	11.14	533.756	
2,300.00	2,279.82	1,013.00	1,000.65	8.45	4.05	114.00	-5,445.18	1,885.13	5,982.10	5,970.22	11.87	503.800	
2,400.00	2,373.17	1,060.38	1,046.22	8.99	4.32	113.34	-5,452.38	1,895.93	6,019.56	6,007.01	12.55	479.457	
2,500.00	2,465.21	1,106.00	1,090.05	9.58	4.58	112.65	-5,459.59	1,906.33	6,058.94	6,045.68	13.26	456.777	
2,574.08	2,532.50	1,155.74	1,137.80	10.04	4.87	112.16	-5,467.71	1,917.63	6,089.27	6,075.38	13.89	438.361	
2,600.00	2,555.89	1,170.58	1,152.05	10.21	4.96	112.19	-5,470.18	1,920.99	6,100.07	6,085.97	14.10	432.590	
2,700.00	2,646.16	1,222.17	1,201.54	10.88	5.26	112.33	-5,478.97	1,932.60	6,142.08	6,127.18	14.89	412.439	
2,800.00	2,736.44	2,800.00	1,371.75	11.57	14.41	112.80	-5,508.68	1,970.36	6,183.42	6,160.62	22.80	271.202	
2,900.00	2,826.71	1,457.36	1,428.06	12.27	6.62	112.96	-5,518.46	1,981.95	6,224.70	6,207.51	17.19	362.147	
3,000.00	2,916.98	1,490.00	1,459.56	13.00	6.81	113.05	-5,524.22	1,988.31	6,266.73	6,248.82	17.92	349.801	
3,100.00	3,007.25	1,537.00	1,504.86	13.73	7.08	113.18	-5,532.93	1,997.30	6,309.50	6,290.78	18.72	337.096	
3,200.00	3,097.52	1,584.00	1,550.10	14.48	7.35	113.32	-5,542.18	2,006.07	6,353.09	6,333.56	19.52	325.403	
3,300.00	3,187.80	1,618.11	1,582.88	15.23	7.55	113.42	-5,549.17	2,012.35	6,397.37	6,377.11	20.26	315.694	
3,400.00	3,278.07	1,678.00	1,640.39	15.99	7.90	113.59	-5,561.83	2,023.32	6,442.33	6,421.19	21.14	304.736	
3,500.00	3,368.34	1,741.88	1,701.69	16.76	8.27	113.78	-5,575.61	2,034.83	6,487.71	6,465.67	22.04	294.379	
3,600.00	3,458.61	2,197.52	2,143.34	17.54	10.77	115.15	-5,662.53	2,104.77	6,529.07	6,504.18	24.89	262.304	
3,700.00	3,548.89	2,240.00	2,184.76	18.32	10.99	115.28	-5,669.96	2,110.54	6,570.15	6,544.46	25.69	255.774	
3,800.00	3,639.16	2,346.89	2,288.94	19.10	11.55	115.60	-5,688.78	2,125.32	6,611.56	6,584.76	26.80	246.712	
3,900.00	3,729.43	2,389.50	2,330.45	19.89	11.77	115.72	-5,696.41	2,131.15	6,653.22	6,625.63	27.60	241.095	
4,000.00	3,819.70	2,467.76	2,406.67	20.69	12.18	115.96	-5,710.86	2,141.50	6,695.43	6,666.86	28.57	234.382	
4,100.00	3,909.98	2,561.25	2,497.79	21.48	12.67	116.24	-5,727.82	2,153.71	6,737.46	6,707.84	29.61	227.518	
4,200.00	4,000.25	2,615.00	2,550.12	22.28	12.95	116.39	-5,737.66	2,161.09	6,779.91	6,749.45	30.46	222.560	
4,300.00	4,090.52	2,654.21	2,588.22	23.08	13.17	116.50	-5,744.99	2,166.75	6,822.98	6,791.74	31.24	218.387	
4,400.00	4,180.79	2,709.00	2,641.30	23.88	13.47	116.65	-5,755.62	2,175.16	6,866.82	6,834.72	32.10	213.914	
4,500.00	4,271.06	2,844.01	2,771.99	24.69	14.23	117.00	-5,780.75	2,197.89	6,910.52	6,877.11	33.41	206.869	
4,600.00	4,361.34	2,913.60	2,839.43	25.49	14.62	117.17	-5,793.64	2,209.19	6,954.08	6,919.73	34.35	202.434	
4,700.00	4,451.61	2,988.86	2,912.37	26.30	15.04	117.37	-5,807.78	2,221.18	6,997.90	6,962.58	35.33	198.095	
4,800.00	4,541.88	3,092.59	3,012.94	27.11	15.61	117.63	-5,827.26	2,237.52	7,041.78	7,005.33	36.45	193.166	
4,900.00	4,632.15	3,170.60	3,088.65	27.92	16.04	117.84	-5,842.03	2,249.15	7,085.70	7,048.27	37.44	189.276	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	3,225.54	3,141.98	28.74	16.34	117.98	-5,852.61	2,257.09	7,129.93	7,091.64	38.29	186.212	
5,100.00	4,812.70	3,272.00	3,187.00	29.55	16.60	118.10	-5,861.72	2,264.00	7,174.65	7,135.56	39.09	183.527	
5,200.00	4,902.97	3,333.74	3,246.77	30.37	16.95	118.26	-5,874.09	2,273.28	7,219.83	7,179.85	39.98	180.583	
5,300.00	4,993.24	5,300.00	3,346.33	31.18	28.02	118.52	-5,894.76	2,288.87	7,265.17	7,216.02	49.15	147.804	
5,400.00	5,083.51	3,521.24	3,428.24	32.00	18.00	118.72	-5,911.43	2,302.13	7,310.36	7,268.24	42.12	173.554	
5,500.00	5,173.79	3,553.00	3,458.93	32.82	18.18	118.80	-5,917.75	2,307.31	7,356.02	7,313.19	42.84	171.721	
5,600.00	5,264.06	3,600.27	3,504.54	33.63	18.46	118.91	-5,927.42	2,315.08	7,402.26	7,358.62	43.64	169.619	
5,700.00	5,354.33	3,647.00	3,549.53	34.45	18.73	119.02	-5,937.46	2,322.75	7,449.24	7,404.80	44.44	167.635	
5,800.00	5,444.60	5,788.87	5,658.50	35.27	27.32	124.38	-6,129.05	2,503.00	7,478.45	7,424.08	54.37	137.551	
5,900.00	5,534.88	5,872.66	5,742.24	36.09	27.50	124.62	-6,126.77	2,501.78	7,501.47	7,446.19	55.28	135.701	
6,000.00	5,625.15	5,989.25	5,858.78	36.91	27.76	124.95	-6,123.56	2,500.11	7,524.64	7,468.36	56.27	133.715	
6,100.00	5,715.42	6,097.15	5,966.62	37.74	28.00	125.25	-6,120.20	2,498.60	7,547.64	7,490.40	57.25	131.846	
6,200.00	5,805.69	6,213.65	6,083.05	38.56	28.26	125.58	-6,116.22	2,497.17	7,570.57	7,512.33	58.24	129.987	
6,300.00	5,895.96	6,311.12	6,180.44	39.38	28.49	125.84	-6,112.57	2,496.06	7,593.36	7,534.17	59.19	128.297	
6,400.00	5,986.24	6,384.96	6,254.23	40.20	28.66	126.05	-6,109.91	2,495.34	7,616.46	7,556.40	60.07	126.799	
6,500.00	6,076.51	6,465.00	6,334.22	41.03	28.85	126.26	-6,107.11	2,494.89	7,639.88	7,578.91	60.97	125.315	
6,600.00	6,166.78	6,538.04	6,407.21	41.85	29.03	126.45	-6,104.63	2,494.91	7,663.61	7,601.77	61.85	123.914	
6,700.00	6,257.05	6,600.23	6,469.37	42.67	29.18	126.61	-6,102.66	2,495.23	7,687.76	7,625.07	62.70	122.621	
6,800.00	6,347.33	6,668.12	6,537.23	43.50	29.36	126.79	-6,100.78	2,495.74	7,712.41	7,648.85	63.56	121.342	
6,900.00	6,437.60	6,797.44	6,666.51	44.32	29.69	127.12	-6,097.16	2,496.33	7,737.20	7,672.60	64.60	119.764	
7,000.00	6,527.87	6,942.61	6,811.59	45.15	30.05	127.50	-6,092.26	2,495.09	7,761.37	7,695.69	65.68	118.174	
7,100.00	6,618.14	7,030.80	6,899.71	45.98	30.26	127.74	-6,089.13	2,493.58	7,785.47	7,718.89	66.58	116.935	
7,200.00	6,708.41	7,115.42	6,984.26	46.80	30.47	127.97	-6,086.20	2,492.03	7,809.78	7,742.31	67.47	115.754	
7,300.00	6,798.69	7,190.55	7,059.33	47.63	30.66	128.17	-6,083.70	2,490.71	7,834.36	7,766.04	68.33	114.656	
7,400.00	6,888.96	7,278.97	7,147.70	48.45	30.88	128.40	-6,080.87	2,489.24	7,859.22	7,790.00	69.23	113.529	
7,500.00	6,979.23	7,359.79	7,228.47	49.28	31.08	128.61	-6,078.26	2,488.22	7,884.25	7,814.15	70.10	112.470	
7,600.00	7,069.50	7,434.91	7,303.55	50.11	31.28	128.80	-6,075.99	2,487.19	7,909.59	7,838.64	70.96	111.471	
7,692.09	7,152.63	7,504.08	7,372.68	50.87	31.46	128.98	-6,074.05	2,486.15	7,933.22	7,861.47	71.74	110.582	
7,700.00	7,159.79	7,510.29	7,378.89	50.93	31.47	127.80	-6,073.88	2,486.05	7,935.20	7,863.40	71.81	110.505	
7,750.00	7,205.70	7,550.03	7,418.61	51.32	31.57	118.94	-6,072.82	2,485.39	7,945.36	7,873.13	72.23	109.993	
7,800.00	7,252.52	7,590.40	7,458.96	51.66	31.68	107.35	-6,071.79	2,484.66	7,951.31	7,878.65	72.65	109.439	
7,850.00	7,299.89	7,622.59	7,491.13	51.96	31.76	93.19	-6,071.01	2,484.09	7,953.02	7,879.98	73.04	108.889	
7,900.00	7,347.44	7,655.16	7,523.69	52.20	31.85	77.89	-6,070.27	2,483.57	7,950.51	7,877.10	73.40	108.312	
7,950.00	7,394.83	7,689.23	7,557.75	52.39	31.94	63.57	-6,069.56	2,483.09	7,943.79	7,870.03	73.75	107.708	
8,000.00	7,441.68	7,732.94	7,601.45	52.53	32.06	51.69	-6,068.65	2,482.87	7,932.86	7,858.74	74.12	107.030	
8,050.00	7,487.65	7,776.09	7,644.59	52.62	32.19	42.46	-6,067.71	2,483.23	7,917.78	7,843.32	74.46	106.338	
8,100.00	7,532.37	7,818.29	7,686.77	52.67	32.31	35.44	-6,066.76	2,484.14	7,898.65	7,823.87	74.77	105.635	
8,150.00	7,575.52	7,859.18	7,727.63	52.67	32.43	30.06	-6,065.81	2,485.55	7,875.60	7,800.54	75.06	104.922	
8,200.00	7,616.76	7,930.12	7,798.47	52.63	32.64	25.92	-6,064.01	2,488.62	7,848.77	7,773.32	75.44	104.036	
8,250.00	7,655.77	8,002.13	7,870.39	52.55	32.86	22.62	-6,061.87	2,491.51	7,818.19	7,742.38	75.81	103.133	
8,300.00	7,692.27	8,061.74	7,929.94	52.44	33.04	19.88	-6,059.92	2,493.50	7,784.18	7,708.08	76.10	102.285	
8,350.00	7,725.97	8,100.19	7,968.36	52.29	33.15	17.48	-6,058.61	2,494.58	7,747.07	7,670.77	76.30	101.529	
8,400.00	7,756.62	8,134.99	8,003.12	52.12	33.25	15.28	-6,057.40	2,495.41	7,707.19	7,630.71	76.47	100.782	
8,450.00	7,783.98	8,165.68	8,033.78	51.92	33.34	13.13	-6,056.33	2,496.03	7,664.83	7,588.21	76.61	100.046	
8,500.00	7,807.85	8,184.63	8,052.72	51.70	33.39	10.76	-6,055.68	2,496.39	7,620.34	7,543.65	76.70	99.357	
8,550.00	7,828.05	8,202.09	8,070.16	51.45	33.45	7.86	-6,055.08	2,496.70	7,574.07	7,497.30	76.76	98.669	
8,600.00	7,844.41	8,215.91	8,083.98	51.20	33.49	3.64	-6,054.60	2,496.93	7,526.35	7,449.54	76.80	97.994	
8,650.00	7,856.82	8,226.00	8,094.06	50.93	33.51	-4.01	-6,054.26	2,497.09	7,477.55	7,400.72	76.82	97.335	
8,700.00	7,865.18	8,232.28	8,100.33	50.65	33.53	-23.19	-6,054.05	2,497.19	7,428.04	7,351.22	76.82	96.693	
8,750.00	7,869.43	8,234.68	8,102.74	50.36	33.54	-80.82	-6,053.96	2,497.23	7,378.19	7,301.39	76.80	96.070	
8,776.25	7,870.00	8,234.39	8,102.44	50.21	33.54	-111.69	-6,053.97	2,497.22	7,352.02	7,275.24	76.78	95.752	
8,800.00	7,870.00	8,233.64	8,101.69	50.08	33.54	-111.63	-6,054.00	2,497.21	7,328.36	7,251.60	76.76	95.467	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,230.46	8,098.52	49.53	33.53	-111.37	-6,054.11	2,497.16	7,228.76	7,152.08	76.68	94.267	
9,000.00	7,870.00	8,227.28	8,095.34	49.01	33.52	-111.11	-6,054.22	2,497.11	7,129.17	7,052.56	76.60	93.066	
9,100.00	7,870.00	8,224.08	8,092.15	48.52	33.51	-110.85	-6,054.32	2,497.06	7,029.58	6,953.06	76.52	91.864	
9,200.00	7,870.00	8,220.88	8,088.95	48.06	33.50	-110.58	-6,054.43	2,497.01	6,930.01	6,853.57	76.44	90.660	
9,300.00	7,870.00	8,217.67	8,085.74	47.63	33.49	-110.31	-6,054.54	2,496.96	6,830.44	6,754.09	76.36	89.456	
9,400.00	7,870.00	8,214.45	8,082.52	47.22	33.48	-110.05	-6,054.65	2,496.90	6,730.89	6,654.62	76.27	88.251	
9,500.00	7,870.00	8,211.23	8,079.30	46.83	33.47	-109.78	-6,054.76	2,496.85	6,631.35	6,555.17	76.18	87.044	
9,600.00	7,870.00	8,207.99	8,076.07	46.48	33.46	-109.51	-6,054.87	2,496.80	6,531.82	6,455.73	76.10	85.837	
9,700.00	7,870.00	8,204.75	8,072.82	46.14	33.45	-109.23	-6,054.98	2,496.74	6,432.31	6,356.30	76.01	84.629	
9,800.00	7,870.00	8,201.50	8,069.57	45.83	33.44	-108.96	-6,055.10	2,496.69	6,332.81	6,256.89	75.92	83.420	
9,900.00	7,870.00	8,198.24	8,066.32	45.54	33.43	-108.68	-6,055.21	2,496.63	6,233.32	6,157.50	75.82	82.209	
10,000.00	7,870.00	8,194.97	8,063.05	45.27	33.42	-108.40	-6,055.32	2,496.57	6,133.85	6,058.12	75.73	80.998	
10,100.00	7,870.00	8,191.69	8,059.77	45.03	33.42	-108.12	-6,055.43	2,496.52	6,034.39	5,958.76	75.63	79.786	
10,200.00	7,870.00	8,188.40	8,056.49	44.82	33.41	-107.84	-6,055.55	2,496.46	5,934.95	5,859.41	75.53	78.573	
10,300.00	7,870.00	8,185.10	8,053.19	44.66	33.40	-107.56	-6,055.66	2,496.40	5,835.53	5,760.09	75.43	77.359	
10,400.00	7,870.00	8,181.80	8,049.89	44.56	33.39	-107.27	-6,055.78	2,496.34	5,736.12	5,660.79	75.33	76.144	
10,500.00	7,870.00	8,178.48	8,046.58	44.58	33.38	-106.99	-6,055.89	2,496.28	5,636.73	5,561.51	75.23	74.928	
10,600.00	7,870.00	8,175.16	8,043.26	44.82	33.37	-106.70	-6,056.01	2,496.21	5,537.37	5,462.24	75.12	73.712	
10,700.00	7,870.00	8,171.83	8,039.93	45.36	33.36	-106.41	-6,056.12	2,496.15	5,438.02	5,363.01	75.01	72.494	
10,800.00	7,870.00	8,170.81	8,038.91	46.15	33.36	-106.32	-6,056.15	2,496.13	5,338.70	5,263.78	74.91	71.265	
10,900.00	7,870.00	8,166.81	8,034.91	47.09	33.34	-105.97	-6,056.29	2,496.05	5,239.40	5,164.60	74.80	70.048	
11,000.00	7,870.00	8,162.82	8,030.92	48.13	33.33	-105.62	-6,056.43	2,495.98	5,140.12	5,065.45	74.68	68.830	
11,100.00	7,870.00	8,158.83	8,026.95	49.22	33.32	-105.27	-6,056.57	2,495.90	5,040.88	4,966.32	74.56	67.611	
11,200.00	7,870.00	8,154.86	8,022.98	50.37	33.31	-104.92	-6,056.71	2,495.82	4,941.66	4,867.22	74.43	66.391	
11,300.00	7,870.00	8,150.90	8,019.02	51.55	33.30	-104.56	-6,056.85	2,495.75	4,842.46	4,768.16	74.31	65.170	
11,400.00	7,870.00	8,146.95	8,015.07	52.76	33.29	-104.21	-6,056.99	2,495.66	4,743.30	4,669.13	74.18	63.947	
11,500.00	7,870.00	8,143.00	8,011.13	54.00	33.27	-103.86	-6,057.13	2,495.58	4,644.18	4,570.14	74.04	62.723	
11,600.00	7,870.00	8,139.07	8,007.19	55.27	33.26	-103.51	-6,057.26	2,495.50	4,545.09	4,471.18	73.91	61.498	
11,700.00	7,870.00	8,135.14	8,003.27	56.56	33.25	-103.16	-6,057.40	2,495.41	4,446.03	4,372.26	73.77	60.272	
11,800.00	7,870.00	8,131.23	7,999.36	57.88	33.24	-102.80	-6,057.54	2,495.33	4,347.02	4,273.39	73.62	59.044	
11,900.00	7,870.00	8,127.32	7,995.46	59.21	33.23	-102.45	-6,057.67	2,495.24	4,248.05	4,174.57	73.48	57.814	
12,000.00	7,870.00	8,123.42	7,991.56	60.57	33.22	-102.10	-6,057.81	2,495.15	4,149.12	4,075.79	73.33	56.583	
12,100.00	7,870.00	8,119.53	7,987.68	61.94	33.21	-101.74	-6,057.94	2,495.06	4,050.25	3,977.07	73.18	55.350	
12,200.00	7,870.00	8,115.66	7,983.80	63.33	33.19	-101.39	-6,058.07	2,494.96	3,951.42	3,878.40	73.02	54.114	
12,300.00	7,870.00	8,111.79	7,979.94	64.74	33.18	-101.04	-6,058.21	2,494.87	3,852.66	3,779.80	72.86	52.877	
12,400.00	7,870.00	8,107.93	7,976.08	66.16	33.17	-100.68	-6,058.34	2,494.77	3,753.96	3,681.26	72.70	51.638	
12,500.00	7,870.00	8,104.07	7,972.23	67.59	33.16	-100.33	-6,058.47	2,494.68	3,655.32	3,582.79	72.53	50.396	
12,600.00	7,870.00	8,100.23	7,968.39	69.04	33.15	-99.97	-6,058.61	2,494.58	3,556.75	3,484.39	72.36	49.151	
12,700.00	7,870.00	8,096.40	7,964.56	70.51	33.14	-99.62	-6,058.74	2,494.48	3,458.27	3,386.08	72.19	47.902	
12,800.00	7,870.00	8,092.57	7,960.74	71.98	33.13	-99.27	-6,058.87	2,494.38	3,359.87	3,287.85	72.02	46.651	
12,900.00	7,870.00	8,088.76	7,956.93	73.47	33.12	-98.91	-6,059.00	2,494.27	3,261.56	3,189.72	71.85	45.395	
13,000.00	7,870.00	8,084.95	7,953.13	74.96	33.10	-98.56	-6,059.13	2,494.17	3,163.36	3,091.68	71.67	44.135	
13,100.00	7,870.00	8,081.16	7,949.33	76.47	33.09	-98.20	-6,059.26	2,494.07	3,065.27	2,993.77	71.50	42.870	
13,200.00	7,870.00	8,079.25	7,947.43	77.99	33.09	-98.03	-6,059.32	2,494.01	2,967.29	2,895.95	71.34	41.591	
13,300.00	7,870.00	8,074.98	7,943.16	79.51	33.08	-97.63	-6,059.47	2,493.89	2,869.46	2,798.29	71.17	40.316	
13,400.00	7,870.00	8,070.75	7,938.94	81.05	33.06	-97.23	-6,059.61	2,493.77	2,771.78	2,700.77	71.01	39.033	
13,500.00	7,870.00	8,066.57	7,934.76	82.59	33.05	-96.84	-6,059.76	2,493.65	2,674.26	2,603.41	70.86	37.742	
13,600.00	7,870.00	8,062.43	7,930.63	84.14	33.04	-96.45	-6,059.90	2,493.52	2,576.93	2,506.21	70.72	36.441	
13,700.00	7,870.00	8,058.33	7,926.53	85.70	33.03	-96.06	-6,060.04	2,493.40	2,479.80	2,409.21	70.59	35.129	
13,800.00	7,870.00	8,054.27	7,922.48	87.26	33.01	-95.68	-6,060.17	2,493.28	2,382.91	2,312.42	70.49	33.804	
13,900.00	7,870.00	8,050.25	7,918.46	88.83	33.00	-95.30	-6,060.31	2,493.15	2,286.28	2,215.85	70.43	32.464	
14,000.00	7,870.00	8,046.28	7,914.49	90.41	32.99	-94.92	-6,060.44	2,493.03	2,189.94	2,119.54	70.40	31.107	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 92-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	8,042.34	7,910.56	92.00	32.98	-94.55	-6,060.57	2,492.90	2,093.95	2,023.52	70.43	29.731	
14,200.00	7,870.00	8,038.44	7,906.66	93.59	32.97	-94.18	-6,060.70	2,492.77	1,998.33	1,927.81	70.53	28.334	
14,300.00	7,870.00	8,034.58	7,902.80	95.18	32.96	-93.81	-6,060.83	2,492.65	1,903.17	1,832.45	70.72	26.913	
14,400.00	7,870.00	8,030.75	7,898.98	96.79	32.94	-93.45	-6,060.95	2,492.52	1,808.51	1,737.49	71.02	25.464	
14,500.00	7,870.00	8,026.97	7,895.20	98.39	32.93	-93.09	-6,061.07	2,492.39	1,714.46	1,642.99	71.48	23.987	
14,600.00	7,870.00	8,023.21	7,891.45	100.00	32.92	-92.73	-6,061.20	2,492.26	1,621.11	1,548.99	72.12	22.478	
14,700.00	7,870.00	8,019.50	7,887.74	101.62	32.91	-92.37	-6,061.32	2,492.13	1,528.60	1,455.60	73.00	20.939	
14,800.00	7,870.00	8,015.82	7,884.07	103.24	32.90	-92.02	-6,061.43	2,492.00	1,437.08	1,362.89	74.19	19.371	
14,900.00	7,870.00	8,012.18	7,880.43	104.87	32.89	-91.67	-6,061.55	2,491.88	1,346.76	1,271.00	75.76	17.777	
15,000.00	7,870.00	8,008.57	7,876.82	106.50	32.88	-91.33	-6,061.67	2,491.75	1,257.89	1,180.09	77.80	16.168	
15,100.00	7,870.00	8,004.99	7,873.25	108.13	32.87	-90.98	-6,061.78	2,491.62	1,170.81	1,090.37	80.44	14.555	
15,200.00	7,870.00	8,001.45	7,869.71	109.77	32.86	-90.64	-6,061.89	2,491.49	1,085.95	1,002.15	83.80	12.959	
15,300.00	7,870.00	7,997.94	7,866.21	111.41	32.85	-90.31	-6,062.00	2,491.36	1,003.87	915.84	88.03	11.404	
15,400.00	7,870.00	7,994.46	7,862.73	113.05	32.84	-89.97	-6,062.11	2,491.23	925.31	832.02	93.28	9.919	
15,500.00	7,870.00	7,991.02	7,859.29	114.70	32.83	-89.64	-6,062.22	2,491.10	851.25	751.53	99.72	8.537	
15,600.00	7,870.00	7,987.60	7,855.88	116.35	32.82	-89.32	-6,062.32	2,490.97	782.96	675.54	107.42	7.289	
15,700.00	7,870.00	7,984.22	7,852.51	118.00	32.81	-88.99	-6,062.42	2,490.83	722.08	605.73	116.35	6.206	
15,800.00	7,870.00	7,980.87	7,849.16	119.66	32.80	-88.67	-6,062.53	2,490.70	670.64	544.40	126.24	5.312	
15,900.00	7,870.00	7,977.55	7,845.84	121.32	32.79	-88.35	-6,062.63	2,490.57	630.95	494.51	136.45	4.624	
16,000.00	7,870.00	7,974.26	7,842.56	122.98	32.78	-88.03	-6,062.73	2,490.44	605.33	459.42	145.90	4.149	
16,100.00	7,870.00	7,971.00	7,839.30	124.65	32.77	-87.72	-6,062.83	2,490.31	595.58	442.22	153.37	3.883	
16,108.56	7,870.00	7,970.72	7,839.02	124.79	32.77	-87.69	-6,062.84	2,490.30	595.52	441.64	153.88	3.870	CC, ES
16,200.00	7,870.00	7,967.76	7,836.07	126.32	32.76	-87.41	-6,062.92	2,490.18	602.49	444.62	157.87	3.816	SF
16,300.00	7,870.00	7,964.68	7,832.99	127.99	32.75	-87.11	-6,063.02	2,490.05	625.51	466.34	159.16	3.930	
16,400.00	7,870.00	7,961.67	7,829.98	129.66	32.74	-86.82	-6,063.11	2,489.93	662.95	505.21	157.74	4.203	
16,500.00	7,870.00	7,958.69	7,827.01	131.33	32.73	-86.54	-6,063.19	2,489.81	712.55	558.07	154.48	4.613	
16,600.00	7,870.00	7,955.76	7,824.08	133.01	32.72	-86.25	-6,063.28	2,489.69	771.97	621.75	150.22	5.139	
16,700.00	7,870.00	7,952.86	7,821.19	134.69	32.71	-85.98	-6,063.36	2,489.57	839.12	693.52	145.60	5.763	
16,800.00	7,870.00	7,950.00	7,818.33	136.37	32.70	-85.70	-6,063.45	2,489.45	912.30	771.28	141.02	6.469	
16,900.00	7,870.00	7,947.17	7,815.50	138.06	32.69	-85.43	-6,063.53	2,489.33	990.18	853.48	136.70	7.244	
17,000.00	7,870.00	7,944.38	7,812.71	139.74	32.68	-85.16	-6,063.61	2,489.22	1,071.73	939.00	132.72	8.075	
17,100.00	7,870.00	7,941.62	7,809.96	141.43	32.68	-84.90	-6,063.69	2,489.10	1,156.17	1,027.05	129.12	8.954	
17,200.00	7,870.00	7,938.89	7,807.24	143.12	32.67	-84.63	-6,063.76	2,488.99	1,242.91	1,117.03	125.88	9.874	
17,300.00	7,870.00	7,936.20	7,804.55	144.81	32.66	-84.38	-6,063.84	2,488.87	1,331.51	1,208.53	122.98	10.827	
17,400.00	7,870.00	7,933.54	7,801.89	146.50	32.65	-84.12	-6,063.91	2,488.76	1,421.62	1,301.23	120.39	11.809	
17,500.00	7,870.00	7,930.91	7,799.27	148.19	32.64	-83.87	-6,063.99	2,488.65	1,512.97	1,394.90	118.06	12.815	
17,600.00	7,870.00	7,928.32	7,796.67	149.89	32.64	-83.62	-6,064.06	2,488.54	1,605.34	1,489.36	115.98	13.842	
17,700.00	7,870.00	7,925.75	7,794.11	151.59	32.63	-83.38	-6,064.13	2,488.43	1,698.57	1,584.47	114.11	14.886	
17,800.00	7,870.00	7,923.22	7,791.58	153.29	32.62	-83.13	-6,064.20	2,488.33	1,792.53	1,680.12	112.42	15.945	
17,900.00	7,870.00	7,920.71	7,789.08	154.99	32.61	-82.89	-6,064.27	2,488.22	1,887.11	1,776.22	110.89	17.018	
18,000.00	7,870.00	7,918.23	7,786.60	156.69	32.61	-82.66	-6,064.33	2,488.11	1,982.21	1,872.71	109.50	18.102	
18,100.00	7,870.00	7,915.78	7,784.16	158.39	32.60	-82.42	-6,064.40	2,488.01	2,077.78	1,969.53	108.24	19.195	
18,200.00	7,870.00	7,913.36	7,781.74	160.09	32.59	-82.19	-6,064.46	2,487.90	2,173.73	2,066.64	107.10	20.297	
18,300.00	7,870.00	7,910.97	7,779.35	161.80	32.58	-81.96	-6,064.53	2,487.80	2,270.04	2,163.99	106.05	21.406	
18,400.00	7,870.00	7,908.60	7,776.98	163.51	32.58	-81.74	-6,064.59	2,487.70	2,366.65	2,261.56	105.09	22.521	
18,455.45	7,870.00	7,907.30	7,775.69	164.45	32.57	-81.62	-6,064.62	2,487.64	2,420.33	2,315.75	104.59	23.142	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 73-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	148.52	-5,442.97	3,332.48	6,382.16				
100.00	100.00	59.28	59.28	0.13	0.09	148.52	-5,443.12	3,332.40	6,382.21	6,381.99	0.22	N/A	
200.00	200.00	165.00	164.99	0.49	0.44	148.53	-5,443.70	3,331.33	6,382.14	6,381.21	0.93	6,864.545	
212.71	212.71	188.72	188.71	0.54	0.52	148.54	-5,443.86	3,330.94	6,382.07	6,381.01	1.06	6,020.963	
300.00	300.00	224.28	224.27	0.85	0.65	148.54	-5,444.29	3,330.51	6,382.42	6,380.92	1.50	4,254.305	
400.00	400.00	255.00	254.98	1.21	0.76	148.55	-5,444.84	3,330.30	6,383.72	6,381.75	1.97	3,241.590	
500.00	500.00	300.70	300.67	1.57	0.92	148.55	-5,446.00	3,330.27	6,385.95	6,383.46	2.49	2,564.256	
600.00	600.00	349.00	348.93	1.93	1.10	148.56	-5,447.69	3,330.65	6,389.22	6,386.20	3.02	2,115.400	
700.00	700.00	384.73	384.62	2.29	1.22	148.56	-5,449.19	3,331.15	6,393.36	6,389.86	3.51	1,823.913	
800.00	800.00	441.00	440.82	2.64	1.43	148.57	-5,451.81	3,332.20	6,398.29	6,394.23	4.06	1,575.102	
900.00	900.00	479.83	479.59	3.00	1.57	148.57	-5,453.90	3,333.09	6,404.03	6,399.47	4.56	1,405.135	
1,000.00	1,000.00	536.00	535.62	3.36	1.77	148.57	-5,457.47	3,334.55	6,410.71	6,405.59	5.11	1,253.410	
1,100.00	1,100.00	536.00	535.62	3.72	1.77	148.57	-5,457.47	3,334.55	6,418.35	6,412.88	5.47	1,173.556	
1,200.00	1,200.00	588.46	587.90	4.08	1.97	148.58	-5,461.56	3,336.19	6,426.87	6,420.86	6.01	1,068.760	
1,300.00	1,300.00	623.00	622.27	4.44	2.10	148.59	-5,464.73	3,337.45	6,436.55	6,430.06	6.49	991.748	
1,400.00	1,399.98	667.80	666.81	4.79	2.28	105.44	-5,469.23	3,339.24	6,447.63	6,440.62	7.00	920.601	
1,500.00	1,499.84	711.00	709.72	5.15	2.44	105.22	-5,473.85	3,341.06	6,460.40	6,452.90	7.51	860.429	
1,600.00	1,599.45	748.67	747.11	5.51	2.60	104.97	-5,478.11	3,342.92	6,475.00	6,467.00	8.00	809.843	
1,700.00	1,698.70	798.00	795.98	5.87	2.79	104.71	-5,484.02	3,346.03	6,491.54	6,483.01	8.53	761.087	
1,800.00	1,797.47	798.00	795.98	6.24	2.79	104.34	-5,484.02	3,346.03	6,509.90	6,501.02	8.89	732.609	
1,900.00	1,895.62	857.83	855.14	6.63	3.04	104.04	-5,491.76	3,350.48	6,529.92	6,520.44	9.48	688.736	
2,000.00	1,993.06	885.00	881.96	7.04	3.16	103.66	-5,495.49	3,352.63	6,551.76	6,541.79	9.97	657.344	
2,100.00	2,089.64	923.33	919.75	7.48	3.32	103.28	-5,501.03	3,355.92	6,575.35	6,564.83	10.52	625.108	
2,200.00	2,185.27	973.00	968.58	7.94	3.54	102.90	-5,508.71	3,360.74	6,600.86	6,589.72	11.14	592.654	
2,300.00	2,279.82	994.52	989.71	8.45	3.64	102.41	-5,512.17	3,362.96	6,627.89	6,616.22	11.68	567.550	
2,400.00	2,373.17	1,060.00	1,053.97	8.99	3.93	102.04	-5,522.79	3,369.68	6,656.27	6,643.84	12.42	535.720	
2,500.00	2,465.21	1,115.86	1,108.75	9.58	4.19	101.62	-5,532.09	3,375.44	6,685.91	6,672.73	13.17	507.540	
2,574.08	2,532.50	1,196.88	1,188.14	10.04	4.57	101.45	-5,545.81	3,383.95	6,708.65	6,694.73	13.92	482.096	
2,600.00	2,555.89	2,600.00	1,276.21	10.21	11.17	101.79	-5,560.31	3,393.24	6,716.49	6,697.10	19.40	346.279	
2,700.00	2,646.16	1,380.38	1,368.35	10.88	5.43	102.14	-5,574.95	3,402.60	6,746.42	6,731.02	15.41	437.917	
2,800.00	2,736.44	1,430.16	1,417.24	11.57	5.66	102.32	-5,583.05	3,407.39	6,776.93	6,760.72	16.22	417.888	
2,900.00	2,826.71	1,497.67	1,483.48	12.27	5.98	102.58	-5,594.34	3,413.82	6,808.02	6,790.90	17.12	397.755	
3,000.00	2,916.98	1,545.05	1,529.93	13.00	6.21	102.76	-5,602.47	3,418.33	6,839.68	6,821.74	17.94	381.218	
3,100.00	3,007.25	1,595.00	1,578.85	13.73	6.45	102.94	-5,611.36	3,423.17	6,872.11	6,853.33	18.79	365.817	
3,200.00	3,097.52	1,641.73	1,624.56	14.48	6.68	103.12	-5,619.97	3,427.70	6,905.24	6,885.62	19.62	351.908	
3,300.00	3,187.80	1,701.56	1,683.03	15.23	6.98	103.34	-5,631.31	3,433.37	6,938.98	6,918.46	20.52	338.155	
3,400.00	3,278.07	1,795.11	1,774.41	15.99	7.45	103.69	-5,649.10	3,442.53	6,973.13	6,951.56	21.57	323.266	
3,500.00	3,368.34	2,146.40	2,118.96	16.76	9.15	104.94	-5,707.77	3,477.47	7,005.79	6,982.04	23.75	294.996	
3,600.00	3,458.61	2,206.00	2,177.60	17.54	9.43	105.15	-5,716.75	3,483.18	7,037.16	7,012.50	24.66	285.331	
3,700.00	3,548.89	2,251.29	2,222.13	18.32	9.65	105.31	-5,723.89	3,487.38	7,069.15	7,043.64	25.52	277.038	
3,800.00	3,639.16	2,293.00	2,263.10	19.10	9.85	105.45	-5,730.63	3,491.31	7,101.81	7,075.45	26.35	269.476	
3,900.00	3,729.43	2,353.95	2,322.91	19.89	10.15	105.66	-5,740.69	3,497.29	7,135.07	7,107.80	27.28	261.580	
4,000.00	3,819.70	2,511.69	2,477.83	20.69	10.91	106.19	-5,765.73	3,513.36	7,168.00	7,139.37	28.63	250.340	
4,100.00	3,909.98	2,555.00	2,520.36	21.48	11.11	106.34	-5,772.67	3,517.63	7,201.27	7,171.79	29.48	244.290	
4,200.00	4,000.25	2,555.00	2,520.36	22.28	11.11	106.34	-5,772.67	3,517.63	7,235.52	7,205.40	30.12	240.193	
4,300.00	4,090.52	2,608.42	2,572.72	23.08	11.38	106.52	-5,781.88	3,522.90	7,270.34	7,239.33	31.01	234.453	
4,400.00	4,180.79	2,643.00	2,606.51	23.88	11.55	106.64	-5,788.33	3,526.33	7,306.24	7,274.43	31.81	229.719	
4,500.00	4,271.06	2,832.82	2,792.27	24.69	12.50	107.28	-5,822.34	3,545.48	7,341.79	7,308.47	33.33	220.290	
4,600.00	4,361.34	2,888.86	2,847.14	25.49	12.78	107.46	-5,831.95	3,551.54	7,377.26	7,343.03	34.22	215.552	
4,700.00	4,451.61	2,945.81	2,902.86	26.30	13.07	107.64	-5,841.90	3,557.85	7,413.25	7,378.12	35.12	211.056	
4,800.00	4,541.88	3,045.64	3,000.49	27.11	13.57	107.96	-5,859.83	3,568.48	7,449.70	7,413.47	36.23	205.642	
4,900.00	4,632.15	3,199.06	3,150.87	27.92	14.33	108.47	-5,887.07	3,582.01	7,485.41	7,447.83	37.58	199.196	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 73-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	3,274.93	3,225.26	28.74	14.70	108.71	-5,900.29	3,588.95	7,521.26	7,482.70	38.56	195.040	
5,100.00	4,812.70	3,386.82	3,334.98	29.55	15.25	109.07	-5,919.60	3,599.25	7,557.19	7,517.47	39.72	190.275	
5,200.00	4,902.97	3,482.48	3,428.87	30.37	15.72	109.39	-5,936.30	3,606.78	7,593.03	7,552.24	40.79	186.142	
5,300.00	4,993.24	3,567.54	3,512.32	31.18	16.13	109.65	-5,950.49	3,615.17	7,629.04	7,587.22	41.82	182.436	
5,400.00	5,083.51	3,822.98	3,763.29	32.00	17.36	110.43	-5,991.62	3,638.96	7,665.16	7,621.51	43.65	175.597	
5,500.00	5,173.79	3,917.45	3,856.41	32.82	17.80	110.72	-6,005.86	3,646.05	7,699.45	7,654.73	44.72	172.182	
5,600.00	5,264.06	3,976.17	3,914.25	33.63	18.07	110.90	-6,014.60	3,651.09	7,734.11	7,688.49	45.61	169.555	
5,700.00	5,354.33	4,039.00	3,976.08	34.45	18.37	111.09	-6,024.11	3,657.02	7,769.35	7,722.82	46.53	166.975	
5,800.00	5,444.60	4,126.62	4,062.26	35.27	18.79	111.34	-6,037.42	3,665.57	7,804.91	7,757.35	47.56	164.093	
5,900.00	5,534.88	5,453.62	5,380.91	36.09	23.90	115.29	-6,154.13	3,718.45	7,834.62	7,780.95	53.67	145.982	
6,000.00	5,625.15	5,685.41	5,612.63	36.91	24.55	116.00	-6,157.45	3,714.56	7,855.76	7,800.63	55.13	142.506	
6,100.00	5,715.42	5,959.40	5,886.51	37.74	25.25	116.82	-6,155.18	3,707.15	7,874.19	7,817.54	56.65	138.999	
6,200.00	5,805.69	6,053.71	5,980.77	38.56	25.49	117.10	-6,153.44	3,704.93	7,892.66	7,835.02	57.64	136.928	
6,300.00	5,895.96	6,150.12	6,077.14	39.38	25.73	117.38	-6,151.49	3,702.93	7,911.26	7,852.62	58.64	134.916	
6,400.00	5,986.24	6,250.77	6,177.75	40.20	25.99	117.67	-6,149.26	3,701.18	7,929.97	7,870.32	59.65	132.949	
6,500.00	6,076.51	6,362.37	6,289.30	41.03	26.27	117.99	-6,146.50	3,699.38	7,948.67	7,887.99	60.69	130.979	
6,600.00	6,166.78	6,442.63	6,369.52	41.85	26.48	118.22	-6,144.37	3,698.16	7,967.44	7,905.81	61.63	129.269	
6,700.00	6,257.05	6,509.39	6,436.26	42.67	26.65	118.40	-6,142.72	3,697.39	7,986.64	7,924.10	62.54	127.702	
6,800.00	6,347.33	6,577.41	6,504.26	43.50	26.83	118.59	-6,141.18	3,696.87	8,006.28	7,942.83	63.45	126.185	
6,900.00	6,437.60	6,659.49	6,586.32	44.32	27.06	118.82	-6,139.36	3,696.65	8,026.26	7,961.86	64.40	124.630	
7,000.00	6,527.87	6,741.93	6,668.74	45.15	27.28	119.04	-6,137.46	3,696.97	8,046.51	7,981.16	65.35	123.125	
7,100.00	6,618.14	6,827.28	6,754.06	45.98	27.52	119.26	-6,135.49	3,697.63	8,067.00	8,000.69	66.32	121.647	
7,200.00	6,708.41	6,912.80	6,839.55	46.80	27.76	119.49	-6,133.55	3,698.39	8,087.71	8,020.43	67.28	120.217	
7,300.00	6,798.69	6,998.36	6,925.09	47.63	28.00	119.71	-6,131.64	3,699.24	8,108.64	8,040.40	68.24	118.830	
7,400.00	6,888.96	7,083.95	7,010.66	48.45	28.24	119.93	-6,129.77	3,700.18	8,129.78	8,060.58	69.20	117.488	
7,500.00	6,979.23	7,168.73	7,095.41	49.28	28.49	120.15	-6,127.96	3,701.19	8,151.14	8,080.99	70.15	116.191	
7,600.00	7,069.50	7,253.40	7,180.06	50.11	28.73	120.36	-6,126.21	3,702.28	8,172.72	8,101.62	71.11	114.936	
7,692.09	7,152.63	7,350.91	7,277.54	50.87	29.02	120.61	-6,124.21	3,703.35	8,192.71	8,120.67	72.05	113.714	
7,700.00	7,159.79	7,359.75	7,286.37	50.93	29.04	119.46	-6,124.03	3,703.41	8,194.38	8,122.25	72.13	113.608	
7,750.00	7,205.70	7,416.24	7,342.85	51.32	29.20	110.73	-6,122.86	3,703.67	8,202.46	8,129.82	72.64	112.918	
7,800.00	7,252.52	7,473.57	7,400.17	51.66	29.37	99.21	-6,121.66	3,703.67	8,206.30	8,133.16	73.14	112.198	
7,850.00	7,299.89	7,511.92	7,438.51	51.96	29.48	85.04	-6,120.88	3,703.68	8,205.96	8,132.40	73.56	111.556	
7,900.00	7,347.44	7,556.93	7,483.52	52.20	29.61	69.67	-6,119.99	3,703.62	8,201.41	8,127.44	73.97	110.869	
7,950.00	7,394.83	7,601.69	7,528.26	52.39	29.74	55.22	-6,119.11	3,703.53	8,192.69	8,118.33	74.36	110.176	
8,000.00	7,441.68	7,643.61	7,570.17	52.53	29.86	43.11	-6,118.32	3,703.44	8,179.86	8,105.15	74.71	109.491	
8,050.00	7,487.65	7,683.28	7,609.84	52.62	29.97	33.58	-6,117.58	3,703.39	8,163.02	8,088.00	75.02	108.810	
8,100.00	7,532.37	7,721.85	7,648.40	52.67	30.09	26.16	-6,116.88	3,703.40	8,142.31	8,067.01	75.30	108.129	
8,150.00	7,575.52	7,759.04	7,685.58	52.67	30.20	20.29	-6,116.23	3,703.46	8,117.87	8,042.32	75.55	107.449	
8,200.00	7,616.76	7,794.78	7,721.32	52.63	30.30	15.46	-6,115.61	3,703.56	8,089.88	8,014.11	75.77	106.769	
8,250.00	7,655.77	7,833.27	7,759.81	52.55	30.41	11.29	-6,114.95	3,703.69	8,058.53	7,982.55	75.97	106.070	
8,300.00	7,692.27	7,869.19	7,795.72	52.44	30.52	7.49	-6,114.33	3,703.81	8,024.04	7,947.89	76.14	105.379	
8,350.00	7,725.97	7,902.27	7,828.79	52.29	30.62	3.76	-6,113.77	3,703.93	7,986.67	7,910.39	76.28	104.698	
8,400.00	7,756.62	7,932.24	7,858.76	52.12	30.71	-0.15	-6,113.26	3,704.03	7,946.71	7,870.32	76.39	104.028	
8,450.00	7,783.98	7,958.88	7,885.40	51.92	30.79	-4.58	-6,112.80	3,704.12	7,904.47	7,828.00	76.47	103.374	
8,500.00	7,807.85	7,981.99	7,908.51	51.70	30.85	-10.01	-6,112.40	3,704.20	7,860.25	7,783.74	76.51	102.735	
8,550.00	7,828.05	8,000.32	7,926.83	51.45	30.91	-17.13	-6,112.09	3,704.27	7,814.41	7,737.88	76.52	102.119	
8,600.00	7,844.41	8,015.37	7,941.88	51.20	30.95	-27.09	-6,111.84	3,704.33	7,767.29	7,690.78	76.51	101.521	
8,650.00	7,856.82	8,026.58	7,953.09	50.93	30.99	-41.44	-6,111.65	3,704.37	7,719.25	7,642.78	76.47	100.944	
8,700.00	7,865.18	8,033.86	7,960.37	50.65	31.01	-61.04	-6,111.52	3,704.40	7,670.67	7,594.26	76.41	100.391	
8,750.00	7,869.43	8,037.16	7,963.67	50.36	31.02	-83.12	-6,111.47	3,704.41	7,621.91	7,545.59	76.32	99.864	
8,776.25	7,870.00	8,037.28	7,963.79	50.21	31.02	-93.72	-6,111.46	3,704.41	7,596.37	7,520.10	76.27	99.599	
8,800.00	7,870.00	8,036.89	7,963.40	50.08	31.02	-93.71	-6,111.47	3,704.41	7,573.31	7,497.09	76.22	99.362	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 73-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	8,035.25	7,961.76	49.53	31.01	-93.66	-6,111.50	3,704.41	7,476.26	7,400.25	76.01	98.363	
9,000.00	7,870.00	8,033.61	7,960.12	49.01	31.01	-93.61	-6,111.53	3,704.40	7,379.28	7,303.49	75.79	97.362	
9,100.00	7,870.00	8,031.97	7,958.48	48.52	31.00	-93.56	-6,111.55	3,704.39	7,282.39	7,206.81	75.58	96.360	
9,200.00	7,870.00	8,030.33	7,956.84	48.06	31.00	-93.51	-6,111.58	3,704.39	7,185.58	7,110.22	75.36	95.355	
9,300.00	7,870.00	8,028.69	7,955.19	47.63	30.99	-93.45	-6,111.61	3,704.38	7,088.86	7,013.72	75.13	94.348	
9,400.00	7,870.00	8,027.04	7,953.55	47.22	30.99	-93.40	-6,111.64	3,704.37	6,992.23	6,917.32	74.91	93.339	
9,500.00	7,870.00	8,025.40	7,951.91	46.83	30.98	-93.35	-6,111.67	3,704.37	6,895.70	6,821.01	74.69	92.328	
9,600.00	7,870.00	8,023.76	7,950.26	46.48	30.98	-93.30	-6,111.69	3,704.36	6,799.26	6,724.80	74.46	91.314	
9,700.00	7,870.00	8,022.11	7,948.62	46.14	30.97	-93.25	-6,111.72	3,704.35	6,702.93	6,628.70	74.23	90.297	
9,800.00	7,870.00	8,020.46	7,946.97	45.83	30.97	-93.19	-6,111.75	3,704.35	6,606.71	6,532.71	74.00	89.277	
9,900.00	7,870.00	8,018.82	7,945.32	45.54	30.96	-93.14	-6,111.78	3,704.34	6,510.60	6,436.83	73.77	88.253	
10,000.00	7,870.00	8,017.17	7,943.68	45.27	30.96	-93.09	-6,111.81	3,704.33	6,414.62	6,341.08	73.54	87.226	
10,100.00	7,870.00	8,015.52	7,942.03	45.03	30.95	-93.04	-6,111.83	3,704.33	6,318.75	6,245.44	73.31	86.194	
10,200.00	7,870.00	8,013.87	7,940.38	44.82	30.95	-92.99	-6,111.86	3,704.32	6,223.02	6,149.94	73.08	85.158	
10,300.00	7,870.00	8,012.22	7,938.73	44.66	30.94	-92.93	-6,111.89	3,704.31	6,127.42	6,054.57	72.84	84.117	
10,400.00	7,870.00	8,010.57	7,937.08	44.56	30.94	-92.88	-6,111.92	3,704.31	6,031.96	5,959.35	72.61	83.071	
10,500.00	7,870.00	8,008.92	7,935.43	44.58	30.93	-92.83	-6,111.95	3,704.30	5,936.65	5,864.27	72.38	82.019	
10,600.00	7,870.00	8,007.26	7,933.77	44.82	30.93	-92.78	-6,111.97	3,704.29	5,841.50	5,769.35	72.15	80.960	
10,700.00	7,870.00	8,005.61	7,932.12	45.36	30.93	-92.73	-6,112.00	3,704.29	5,746.51	5,674.58	71.93	79.894	
10,800.00	7,870.00	8,003.96	7,930.47	46.15	30.92	-92.67	-6,112.03	3,704.28	5,651.70	5,579.99	71.70	78.821	
10,900.00	7,870.00	8,002.30	7,928.81	47.09	30.92	-92.62	-6,112.06	3,704.28	5,557.06	5,485.58	71.48	77.739	
11,000.00	7,870.00	8,000.65	7,927.16	48.13	30.91	-92.57	-6,112.09	3,704.27	5,462.62	5,391.35	71.27	76.647	
11,100.00	7,870.00	7,998.99	7,925.50	49.22	30.91	-92.52	-6,112.11	3,704.26	5,368.38	5,297.31	71.06	75.546	
11,200.00	7,870.00	7,997.33	7,923.85	50.37	30.90	-92.46	-6,112.14	3,704.26	5,274.34	5,203.48	70.86	74.433	
11,300.00	7,870.00	7,995.68	7,922.19	51.55	30.90	-92.41	-6,112.17	3,704.25	5,180.54	5,109.87	70.67	73.307	
11,400.00	7,870.00	7,994.02	7,920.53	52.76	30.89	-92.36	-6,112.20	3,704.24	5,086.96	5,016.48	70.49	72.169	
11,500.00	7,870.00	7,992.36	7,918.87	54.00	30.89	-92.31	-6,112.23	3,704.24	4,993.64	4,923.32	70.32	71.015	
11,600.00	7,870.00	7,990.70	7,917.21	55.27	30.88	-92.25	-6,112.26	3,704.23	4,900.58	4,830.42	70.16	69.846	
11,700.00	7,870.00	7,989.04	7,915.55	56.56	30.88	-92.20	-6,112.28	3,704.23	4,807.79	4,737.77	70.02	68.659	
11,800.00	7,870.00	7,987.38	7,913.89	57.88	30.87	-92.15	-6,112.31	3,704.22	4,715.31	4,645.40	69.90	67.453	
11,900.00	7,870.00	7,985.71	7,912.23	59.21	30.87	-92.10	-6,112.34	3,704.21	4,623.13	4,553.32	69.81	66.227	
12,000.00	7,870.00	7,984.46	7,910.97	60.57	30.86	-92.06	-6,112.36	3,704.21	4,531.28	4,461.55	69.74	64.978	
12,100.00	7,870.00	7,982.75	7,909.26	61.94	30.86	-92.00	-6,112.39	3,704.20	4,439.79	4,370.10	69.69	63.706	
12,200.00	7,870.00	7,981.04	7,907.55	63.33	30.85	-91.95	-6,112.42	3,704.20	4,348.67	4,278.99	69.68	62.409	
12,300.00	7,870.00	7,979.33	7,905.85	64.74	30.85	-91.89	-6,112.45	3,704.19	4,257.95	4,188.24	69.71	61.085	
12,400.00	7,870.00	7,977.62	7,904.14	66.16	30.84	-91.84	-6,112.48	3,704.19	4,167.65	4,097.88	69.77	59.733	
12,500.00	7,870.00	7,975.91	7,902.43	67.59	30.84	-91.79	-6,112.51	3,704.18	4,077.80	4,007.92	69.89	58.350	
12,600.00	7,870.00	7,974.20	7,900.72	69.04	30.83	-91.73	-6,112.54	3,704.17	3,988.44	3,918.39	70.05	56.936	
12,700.00	7,870.00	7,972.49	7,899.01	70.51	30.83	-91.68	-6,112.57	3,704.17	3,899.59	3,829.32	70.27	55.491	
12,800.00	7,870.00	7,970.78	7,897.30	71.98	30.82	-91.62	-6,112.60	3,704.16	3,811.30	3,740.73	70.56	54.012	
12,900.00	7,870.00	7,969.07	7,895.59	73.47	30.82	-91.57	-6,112.63	3,704.16	3,723.59	3,652.67	70.93	52.500	
13,000.00	7,870.00	7,967.36	7,893.88	74.96	30.81	-91.52	-6,112.65	3,704.15	3,636.52	3,565.16	71.37	50.955	
13,100.00	7,870.00	7,965.65	7,892.17	76.47	30.81	-91.46	-6,112.68	3,704.14	3,550.13	3,478.24	71.90	49.379	
13,200.00	7,870.00	7,963.94	7,890.46	77.99	30.80	-91.41	-6,112.71	3,704.14	3,464.47	3,391.95	72.52	47.772	
13,300.00	7,870.00	7,962.23	7,888.75	79.51	30.80	-91.35	-6,112.74	3,704.13	3,379.60	3,306.35	73.25	46.137	
13,400.00	7,870.00	7,960.52	7,887.04	81.05	30.79	-91.30	-6,112.77	3,704.13	3,295.58	3,221.48	74.10	44.477	
13,500.00	7,870.00	7,958.81	7,885.33	82.59	30.79	-91.25	-6,112.80	3,704.12	3,212.47	3,137.41	75.06	42.797	
13,600.00	7,870.00	7,957.10	7,883.62	84.14	30.78	-91.19	-6,112.83	3,704.11	3,130.35	3,054.19	76.16	41.100	
13,700.00	7,870.00	7,955.39	7,881.91	85.70	30.78	-91.14	-6,112.86	3,704.11	3,049.29	2,971.89	77.41	39.393	
13,800.00	7,870.00	7,953.68	7,880.20	87.26	30.77	-91.08	-6,112.89	3,704.10	2,969.39	2,890.59	78.80	37.682	
13,900.00	7,870.00	7,951.97	7,878.49	88.83	30.77	-91.03	-6,112.92	3,704.10	2,890.74	2,810.39	80.36	35.975	
14,000.00	7,870.00	7,950.26	7,876.78	90.41	30.76	-90.97	-6,112.95	3,704.09	2,813.45	2,731.37	82.08	34.277	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 73-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,948.55	7,875.07	92.00	30.75	-90.92	-6,112.98	3,704.09	2,737.62	2,653.64	83.98	32.598	
14,200.00	7,870.00	7,946.84	7,873.36	93.59	30.75	-90.87	-6,113.01	3,704.08	2,663.39	2,577.33	86.07	30.946	
14,300.00	7,870.00	7,945.13	7,871.65	95.18	30.74	-90.81	-6,113.03	3,704.07	2,590.89	2,502.55	88.34	29.328	
14,400.00	7,870.00	7,943.42	7,869.94	96.79	30.74	-90.76	-6,113.06	3,704.07	2,520.28	2,429.46	90.82	27.751	
14,500.00	7,870.00	7,941.71	7,868.23	98.39	30.73	-90.70	-6,113.09	3,704.06	2,451.71	2,358.22	93.49	26.225	
14,600.00	7,870.00	7,940.00	7,866.52	100.00	30.73	-90.65	-6,113.12	3,704.06	2,385.36	2,288.99	96.36	24.754	
14,700.00	7,870.00	7,938.29	7,864.81	101.62	30.72	-90.60	-6,113.15	3,704.05	2,321.42	2,221.98	99.43	23.346	
14,800.00	7,870.00	7,936.58	7,863.10	103.24	30.72	-90.54	-6,113.18	3,704.04	2,260.09	2,157.39	102.70	22.006	
14,900.00	7,870.00	7,934.87	7,861.39	104.87	30.71	-90.49	-6,113.21	3,704.04	2,201.60	2,095.45	106.16	20.739	
15,000.00	7,870.00	7,933.16	7,859.68	106.50	30.71	-90.43	-6,113.24	3,704.03	2,146.18	2,036.40	109.78	19.549	
15,100.00	7,870.00	7,931.45	7,857.97	108.13	30.70	-90.38	-6,113.27	3,704.03	2,094.07	1,980.50	113.57	18.439	
15,200.00	7,870.00	7,929.74	7,856.26	109.77	30.70	-90.32	-6,113.30	3,704.02	2,045.52	1,928.03	117.49	17.410	
15,300.00	7,870.00	7,928.03	7,854.55	111.41	30.69	-90.27	-6,113.33	3,704.01	2,000.79	1,879.28	121.51	16.466	
15,400.00	7,870.00	7,926.32	7,852.84	113.05	30.69	-90.22	-6,113.36	3,704.01	1,960.15	1,834.54	125.60	15.606	
15,500.00	7,870.00	7,924.60	7,851.13	114.70	30.68	-90.16	-6,113.39	3,704.00	1,923.85	1,794.12	129.73	14.830	
15,600.00	7,870.00	7,922.89	7,849.42	116.35	30.68	-90.11	-6,113.42	3,704.00	1,892.14	1,758.31	133.83	14.138	
15,700.00	7,870.00	7,921.18	7,847.71	118.00	30.67	-90.05	-6,113.44	3,703.99	1,865.25	1,727.39	137.87	13.530	
15,800.00	7,870.00	7,919.47	7,846.00	119.66	30.67	-90.00	-6,113.47	3,703.99	1,843.41	1,701.63	141.78	13.002	
15,900.00	7,870.00	7,917.76	7,844.28	121.32	30.66	-89.95	-6,113.50	3,703.98	1,826.78	1,681.27	145.52	12.554	
16,000.00	7,870.00	7,916.05	7,842.57	122.98	30.66	-89.89	-6,113.53	3,703.97	1,815.52	1,666.50	149.02	12.183	
16,100.00	7,870.00	7,914.34	7,840.86	124.65	30.65	-89.84	-6,113.56	3,703.97	1,809.72	1,657.46	152.26	11.886	
16,155.18	7,870.00	7,913.40	7,839.92	125.57	30.65	-89.81	-6,113.58	3,703.96	1,808.88	1,654.97	153.91	11.753	CC
16,200.00	7,870.00	7,912.63	7,839.15	126.32	30.65	-89.78	-6,113.59	3,703.96	1,809.43	1,654.26	155.17	11.661	ES
16,300.00	7,870.00	7,910.92	7,837.44	127.99	30.64	-89.73	-6,113.62	3,703.96	1,814.66	1,656.92	157.74	11.504	
16,400.00	7,870.00	7,909.21	7,835.73	129.66	30.64	-89.67	-6,113.65	3,703.95	1,825.37	1,665.42	159.95	11.412	
16,500.00	7,870.00	7,907.50	7,834.02	131.33	30.63	-89.62	-6,113.68	3,703.94	1,841.44	1,679.67	161.77	11.383	SF
16,600.00	7,870.00	7,905.78	7,832.31	133.01	30.63	-89.57	-6,113.71	3,703.94	1,862.75	1,699.54	163.22	11.413	
16,700.00	7,870.00	7,904.07	7,830.60	134.69	30.62	-89.51	-6,113.74	3,703.93	1,889.12	1,724.83	164.30	11.498	
16,800.00	7,870.00	7,902.36	7,828.89	136.37	30.62	-89.46	-6,113.77	3,703.93	1,920.34	1,755.31	165.03	11.636	
16,900.00	7,870.00	7,900.65	7,827.18	138.06	30.61	-89.40	-6,113.80	3,703.92	1,956.18	1,790.74	165.44	11.824	
17,000.00	7,870.00	7,898.94	7,825.47	139.74	30.61	-89.35	-6,113.83	3,703.92	1,996.38	1,830.83	165.56	12.058	
17,100.00	7,870.00	7,897.23	7,823.75	141.43	30.60	-89.30	-6,113.85	3,703.91	2,040.70	1,875.28	165.42	12.337	
17,200.00	7,870.00	7,895.52	7,822.04	143.12	30.60	-89.24	-6,113.88	3,703.90	2,088.87	1,923.81	165.05	12.656	
17,300.00	7,870.00	7,893.81	7,820.33	144.81	30.59	-89.19	-6,113.91	3,703.90	2,140.62	1,976.13	164.49	13.013	
17,400.00	7,870.00	7,892.09	7,818.62	146.50	30.59	-89.13	-6,113.94	3,703.89	2,195.71	2,031.94	163.77	13.407	
17,500.00	7,870.00	7,890.38	7,816.91	148.19	30.58	-89.08	-6,113.97	3,703.89	2,253.90	2,090.98	162.92	13.834	
17,600.00	7,870.00	7,888.67	7,815.20	149.89	30.58	-89.02	-6,114.00	3,703.88	2,314.94	2,152.98	161.96	14.293	
17,700.00	7,870.00	7,886.96	7,813.49	151.59	30.57	-88.97	-6,114.03	3,703.87	2,378.61	2,217.70	160.91	14.782	
17,800.00	7,870.00	7,885.25	7,811.78	153.29	30.57	-88.92	-6,114.06	3,703.87	2,444.72	2,284.92	159.81	15.298	
17,900.00	7,870.00	7,883.54	7,810.07	154.99	30.56	-88.86	-6,114.09	3,703.86	2,513.07	2,354.42	158.66	15.840	
18,000.00	7,870.00	7,881.83	7,808.35	156.69	30.56	-88.81	-6,114.12	3,703.86	2,583.49	2,426.01	157.47	16.406	
18,100.00	7,870.00	7,880.11	7,806.64	158.39	30.55	-88.75	-6,114.15	3,703.85	2,655.80	2,499.52	156.28	16.994	
18,200.00	7,870.00	7,878.40	7,804.93	160.09	30.55	-88.70	-6,114.18	3,703.85	2,729.85	2,574.78	155.07	17.604	
18,300.00	7,870.00	7,876.69	7,803.22	161.80	30.54	-88.65	-6,114.21	3,703.84	2,805.52	2,651.65	153.87	18.234	
18,400.00	7,870.00	7,874.98	7,801.51	163.51	30.54	-88.59	-6,114.24	3,703.83	2,882.67	2,730.00	152.67	18.882	
18,455.45	7,870.00	7,874.03	7,800.56	164.45	30.53	-88.56	-6,114.25	3,703.83	2,926.04	2,774.03	152.01	19.249	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	161.03	-5,371.00	1,846.74	5,679.64				
100.00	100.00	65.83	65.83	0.13	0.10	161.03	-5,371.13	1,846.69	5,679.75	5,679.51	0.24	N/A	
200.00	200.00	172.71	172.71	0.49	0.42	161.03	-5,371.58	1,846.55	5,680.12	5,679.21	0.91	6,251.369	
300.00	300.00	320.26	320.26	0.85	0.93	161.03	-5,371.32	1,846.41	5,679.94	5,678.16	1.78	3,194.777	
400.00	400.00	420.02	420.02	1.21	1.27	161.03	-5,370.70	1,846.44	5,679.36	5,676.88	2.48	2,289.129	
500.00	500.00	570.06	570.05	1.57	1.80	161.02	-5,369.14	1,847.00	5,678.60	5,675.23	3.37	1,686.257	
600.00	600.00	668.39	668.35	1.93	2.15	161.00	-5,367.13	1,847.75	5,676.92	5,672.85	4.07	1,393.214	
700.00	700.00	753.85	753.80	2.29	2.45	160.99	-5,365.70	1,848.46	5,675.60	5,670.86	4.74	1,198.070	
800.00	800.00	845.02	844.96	2.64	2.78	160.98	-5,364.31	1,849.25	5,674.44	5,669.02	5.42	1,046.800	
900.00	900.00	923.08	923.00	3.00	3.06	160.97	-5,363.22	1,850.11	5,673.50	5,667.44	6.06	936.631	
996.10	996.10	980.18	980.10	3.35	3.26	160.96	-5,362.73	1,850.91	5,673.17	5,666.56	6.60	858.961	
1,000.00	1,000.00	982.50	982.42	3.36	3.27	160.96	-5,362.72	1,850.95	5,673.17	5,666.54	6.63	856.080	
1,100.00	1,100.00	1,058.80	1,058.70	3.72	3.54	160.94	-5,362.50	1,852.27	5,673.45	5,666.19	7.26	781.953	
1,200.00	1,200.00	1,160.28	1,160.16	4.08	3.90	160.93	-5,362.37	1,854.25	5,673.96	5,665.99	7.97	711.615	
1,300.00	1,300.00	1,282.93	1,282.80	4.44	4.33	160.91	-5,362.17	1,855.67	5,674.19	5,665.42	8.77	647.172	
1,400.00	1,399.98	1,375.69	1,375.56	4.79	4.66	117.96	-5,362.10	1,856.00	5,675.05	5,665.61	9.45	600.657	
1,500.00	1,499.84	1,483.50	1,483.38	5.15	5.02	117.97	-5,362.24	1,856.01	5,677.64	5,667.47	10.17	558.192	
1,600.00	1,599.45	1,609.38	1,609.25	5.51	5.46	118.00	-5,362.01	1,855.87	5,681.53	5,670.57	10.96	518.239	
1,700.00	1,698.70	1,703.05	1,702.92	5.87	5.79	118.01	-5,361.69	1,855.69	5,686.90	5,675.25	11.66	487.925	
1,800.00	1,797.47	1,795.04	1,794.91	6.24	6.10	118.01	-5,361.58	1,855.17	5,694.02	5,681.68	12.35	461.225	
1,900.00	1,895.62	1,941.50	1,941.35	6.63	6.61	118.13	-5,360.95	1,853.23	5,702.22	5,688.98	13.24	430.803	
2,000.00	1,993.06	2,028.14	2,027.98	7.04	6.91	118.14	-5,360.55	1,851.83	5,712.07	5,698.13	13.94	409.812	
2,100.00	2,089.64	2,126.44	2,126.27	7.48	7.25	118.18	-5,360.25	1,849.90	5,723.69	5,708.99	14.70	389.345	
2,200.00	2,185.27	2,224.96	2,224.76	7.94	7.60	118.21	-5,359.92	1,847.87	5,737.02	5,721.53	15.49	370.399	
2,300.00	2,279.82	2,322.38	2,322.16	8.45	7.94	118.24	-5,359.57	1,845.85	5,752.09	5,735.79	16.30	352.863	
2,400.00	2,373.17	2,433.95	2,433.70	8.99	8.33	118.32	-5,359.05	1,843.28	5,768.82	5,751.62	17.20	335.491	
2,500.00	2,465.21	2,532.52	2,532.22	9.58	8.68	118.36	-5,358.42	1,840.22	5,786.99	5,768.92	18.08	320.118	
2,574.08	2,532.50	2,579.34	2,579.02	10.04	8.84	118.28	-5,358.18	1,838.96	5,801.84	5,783.18	18.66	310.900	
2,600.00	2,555.89	2,600.00	2,599.68	10.21	8.91	118.36	-5,358.11	1,838.49	5,807.28	5,788.39	18.88	307.511	
2,700.00	2,646.16	2,651.45	2,651.11	10.88	9.09	118.57	-5,358.07	1,837.44	5,828.72	5,809.07	19.65	296.553	
2,800.00	2,736.44	2,715.11	2,714.76	11.57	9.32	118.82	-5,358.37	1,836.28	5,850.95	5,830.47	20.48	285.655	
2,900.00	2,826.71	2,900.00	2,872.33	12.27	9.97	119.44	-5,358.12	1,833.96	5,872.94	5,851.18	21.76	269.909	
3,000.00	2,916.98	3,053.80	3,053.38	13.00	10.51	120.12	-5,354.54	1,832.22	5,893.45	5,870.51	22.94	256.909	
3,100.00	3,007.25	3,129.47	3,129.03	13.73	10.78	120.40	-5,352.83	1,831.28	5,914.18	5,890.33	23.85	248.021	
3,200.00	3,097.52	3,200.00	3,199.54	14.48	11.03	120.67	-5,351.60	1,830.11	5,935.49	5,910.75	24.74	239.933	
3,300.00	3,187.80	3,255.70	3,255.22	15.23	11.23	120.88	-5,350.99	1,828.83	5,957.44	5,931.86	25.58	232.896	
3,400.00	3,278.07	3,341.04	3,340.51	15.99	11.54	121.21	-5,350.63	1,825.98	5,980.03	5,953.50	26.53	225.390	
3,500.00	3,368.34	3,444.76	3,444.16	16.76	11.91	121.62	-5,349.90	1,822.05	6,002.51	5,974.96	27.55	217.845	
3,600.00	3,458.61	3,524.36	3,523.69	17.54	12.19	121.93	-5,349.46	1,819.04	6,025.39	5,996.91	28.49	211.498	
3,700.00	3,548.89	3,622.73	3,622.01	18.32	12.54	122.31	-5,348.75	1,815.75	6,048.47	6,018.97	29.49	205.068	
3,800.00	3,639.16	3,710.31	3,709.55	19.10	12.85	122.64	-5,347.93	1,813.55	6,071.75	6,041.29	30.46	199.324	
3,900.00	3,729.43	3,796.00	3,795.23	19.89	13.16	122.95	-5,347.09	1,811.76	6,095.30	6,063.88	31.42	193.984	
4,000.00	3,819.70	3,861.06	3,860.28	20.69	13.39	123.18	-5,346.49	1,811.00	6,119.29	6,086.99	32.30	189.451	
4,100.00	3,909.98	3,946.71	3,945.92	21.48	13.69	123.47	-5,345.72	1,811.48	6,143.79	6,110.54	33.25	184.755	
4,200.00	4,000.25	4,049.99	4,049.19	22.28	14.05	123.82	-5,344.59	1,811.90	6,168.29	6,134.02	34.27	179.975	
4,300.00	4,090.52	4,151.09	4,150.28	23.08	14.41	124.17	-5,343.54	1,811.49	6,192.90	6,157.62	35.29	175.503	
4,400.00	4,180.79	4,348.97	4,348.11	23.88	15.11	124.86	-5,340.16	1,808.52	6,217.09	6,180.43	36.66	169.569	
4,500.00	4,271.06	4,458.71	4,457.78	24.69	15.51	125.23	-5,336.79	1,806.71	6,240.05	6,202.35	37.71	165.483	
4,600.00	4,361.34	4,546.67	4,545.70	25.49	15.82	125.53	-5,334.07	1,806.20	6,263.39	6,224.72	38.67	161.974	
4,700.00	4,451.61	4,729.78	4,728.67	26.30	16.47	126.12	-5,327.00	1,806.00	6,286.38	6,246.40	39.98	157.237	
4,800.00	4,541.88	4,837.31	4,836.07	27.11	16.85	126.47	-5,321.77	1,805.14	6,308.43	6,267.42	41.01	153.824	
4,900.00	4,632.15	4,900.00	4,898.69	27.92	17.08	126.67	-5,318.87	1,804.37	6,330.86	6,288.98	41.87	151.188	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,969.28	4,967.90	28.74	17.32	126.90	-5,315.96	1,803.38	6,353.83	6,311.07	42.76	148.597	
5,100.00	4,812.70	5,000.00	4,998.59	29.55	17.43	127.00	-5,314.79	1,802.90	6,377.51	6,334.02	43.49	146.628	
5,200.00	4,902.97	5,055.33	5,053.89	30.37	17.63	127.18	-5,313.11	1,801.91	6,401.96	6,357.65	44.32	144.457	
5,300.00	4,993.24	5,100.00	5,098.54	31.18	17.79	127.33	-5,312.29	1,800.98	6,427.45	6,382.36	45.09	142.533	
5,400.00	5,083.51	5,155.51	5,154.03	32.00	17.99	127.51	-5,311.62	1,799.82	6,453.71	6,407.80	45.91	140.579	
5,500.00	5,173.79	5,221.81	5,220.32	32.82	18.23	127.73	-5,310.96	1,798.68	6,480.44	6,433.68	46.76	138.594	
5,600.00	5,264.06	5,278.41	5,276.92	33.63	18.42	127.91	-5,310.60	1,798.38	6,507.77	6,460.20	47.56	136.819	
5,700.00	5,354.33	5,366.39	5,364.89	34.45	18.73	128.18	-5,310.23	1,799.02	6,535.59	6,487.10	48.49	134.783	
5,800.00	5,444.60	5,482.44	5,480.93	35.27	19.13	128.52	-5,309.47	1,799.81	6,563.35	6,513.83	49.53	132.522	
5,900.00	5,534.88	5,617.36	5,615.85	36.09	19.61	128.94	-5,307.97	1,798.79	6,590.71	6,540.07	50.64	130.144	
6,000.00	5,625.15	5,695.38	5,693.84	36.91	19.89	129.19	-5,307.04	1,797.19	6,618.08	6,566.55	51.53	128.443	
6,100.00	5,715.42	5,811.30	5,809.72	37.74	20.31	129.56	-5,305.60	1,794.34	6,645.54	6,592.98	52.56	126.446	
6,200.00	5,805.69	5,875.97	5,874.37	38.56	20.54	129.76	-5,304.81	1,792.87	6,673.18	6,619.80	53.38	125.011	
6,300.00	5,895.96	5,962.26	5,960.64	39.38	20.85	130.03	-5,303.92	1,791.10	6,701.20	6,646.91	54.29	123.436	
6,400.00	5,986.24	6,099.80	6,098.15	40.20	21.34	130.44	-5,301.97	1,790.02	6,729.16	6,673.76	55.40	121.458	
6,500.00	6,076.51	6,230.55	6,228.87	41.03	21.80	130.82	-5,298.84	1,790.08	6,756.33	6,699.84	56.49	119.609	
6,600.00	6,166.78	6,300.00	6,298.30	41.85	22.05	131.01	-5,297.30	1,789.92	6,783.84	6,726.51	57.32	118.344	
6,700.00	6,257.05	6,429.09	6,427.34	42.67	22.51	131.38	-5,294.06	1,789.36	6,811.20	6,752.80	58.39	116.640	
6,800.00	6,347.33	6,490.16	6,488.40	43.50	22.72	131.55	-5,292.50	1,789.68	6,838.75	6,779.56	59.19	115.535	
6,900.00	6,437.60	6,542.55	6,540.77	44.32	22.91	131.69	-5,291.40	1,790.37	6,866.89	6,806.94	59.95	114.547	
7,000.00	6,527.87	6,600.00	6,598.21	45.15	23.11	131.85	-5,290.55	1,791.31	6,895.69	6,834.97	60.72	113.566	
7,100.00	6,618.14	6,732.51	6,730.66	45.98	23.57	132.19	-5,288.17	1,794.22	6,924.31	6,862.51	61.80	112.050	
7,200.00	6,708.41	6,800.00	6,798.14	46.80	23.80	132.37	-5,287.09	1,794.94	6,953.23	6,890.63	62.61	111.064	
7,300.00	6,798.69	6,854.44	6,852.57	47.63	24.00	132.51	-5,286.47	1,795.18	6,982.66	6,919.30	63.36	110.213	
7,400.00	6,888.96	6,951.39	6,949.52	48.45	24.34	132.77	-5,285.55	1,795.95	7,012.45	6,948.17	64.28	109.093	
7,500.00	6,979.23	7,054.42	7,052.53	49.28	24.70	133.04	-5,284.20	1,797.31	7,042.02	6,976.80	65.23	107.963	
7,600.00	7,069.50	7,144.71	7,142.80	50.11	25.01	133.26	-5,283.06	1,798.87	7,071.78	7,005.66	66.12	106.956	
7,692.09	7,152.63	7,223.77	7,221.84	50.87	25.29	133.47	-5,282.02	1,799.85	7,099.23	7,032.31	66.92	106.085	
7,700.00	7,159.79	7,228.66	7,226.73	50.93	25.30	132.27	-5,281.96	1,799.91	7,101.55	7,034.56	66.98	106.024	
7,750.00	7,205.70	7,259.93	7,258.00	51.32	25.41	123.30	-5,281.62	1,800.22	7,113.84	7,046.47	67.36	105.604	
7,800.00	7,252.52	7,300.00	7,298.07	51.66	25.55	111.67	-5,281.29	1,800.59	7,122.00	7,054.22	67.78	105.080	
7,850.00	7,299.89	7,337.87	7,335.93	51.96	25.69	97.52	-5,281.01	1,800.92	7,125.91	7,057.74	68.17	104.528	
7,900.00	7,347.44	7,388.95	7,387.01	52.20	25.86	82.28	-5,280.62	1,801.29	7,125.49	7,056.88	68.61	103.858	
7,950.00	7,394.83	7,432.98	7,431.04	52.39	26.02	68.05	-5,280.28	1,801.60	7,120.74	7,051.74	69.00	103.205	
8,000.00	7,441.68	7,474.65	7,472.71	52.53	26.16	56.26	-5,279.99	1,801.93	7,111.73	7,042.38	69.35	102.543	
8,050.00	7,487.65	7,516.71	7,514.77	52.62	26.31	47.18	-5,279.73	1,802.32	7,098.54	7,028.85	69.69	101.856	
8,100.00	7,532.37	7,559.51	7,557.56	52.67	26.46	40.35	-5,279.47	1,802.74	7,081.24	7,011.23	70.01	101.141	
8,150.00	7,575.52	7,600.79	7,598.84	52.67	26.60	35.23	-5,279.24	1,803.19	7,059.96	6,989.65	70.31	100.411	
8,200.00	7,616.76	7,624.97	7,623.02	52.63	26.69	31.32	-5,279.14	1,803.45	7,034.89	6,964.37	70.52	99.764	
8,250.00	7,655.77	7,648.19	7,646.24	52.55	26.77	28.32	-5,279.09	1,803.70	7,006.26	6,935.56	70.70	99.098	
8,300.00	7,692.27	7,669.99	7,668.03	52.44	26.84	26.00	-5,279.09	1,803.92	6,974.28	6,903.41	70.86	98.419	
8,350.00	7,725.97	7,700.00	7,698.04	52.29	26.94	24.23	-5,279.18	1,804.22	6,939.16	6,868.11	71.05	97.671	
8,400.00	7,756.62	7,733.75	7,731.79	52.12	27.06	22.91	-5,279.27	1,804.59	6,901.10	6,829.87	71.23	96.880	
8,450.00	7,783.98	7,797.56	7,795.59	51.92	27.28	22.10	-5,279.19	1,805.47	6,860.26	6,788.73	71.54	95.898	
8,500.00	7,807.85	7,828.56	7,826.59	51.70	27.38	21.50	-5,279.06	1,805.98	6,817.00	6,745.30	71.69	95.085	
8,550.00	7,828.05	7,853.73	7,851.75	51.45	27.47	21.22	-5,278.93	1,806.44	6,771.71	6,699.89	71.82	94.290	
8,600.00	7,844.41	7,874.00	7,872.02	51.20	27.54	21.36	-5,278.81	1,806.84	6,724.74	6,652.83	71.91	93.510	
8,650.00	7,856.82	7,889.22	7,887.24	50.93	27.59	22.17	-5,278.71	1,807.15	6,676.46	6,604.48	71.99	92.747	
8,700.00	7,865.18	7,899.31	7,897.33	50.65	27.63	24.67	-5,278.64	1,807.36	6,627.24	6,555.21	72.03	92.004	
8,750.00	7,869.43	7,904.28	7,902.30	50.36	27.65	37.60	-5,278.61	1,807.47	6,577.45	6,505.39	72.06	91.282	
8,776.25	7,870.00	7,904.77	7,902.79	50.21	27.65	118.34	-5,278.60	1,807.48	6,551.20	6,479.15	72.06	90.914	
8,800.00	7,870.00	7,904.56	7,902.57	50.08	27.65	118.24	-5,278.61	1,807.47	6,527.46	6,455.40	72.06	90.584	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY

Offset Site Error: 0.00 usft

Survey Program: 100-MWD OWSG

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	7,903.66	7,901.67	49.53	27.64	117.79	-5,278.61	1,807.45	6,427.47	6,355.41	72.06	89.195	
9,000.00	7,870.00	7,902.77	7,900.78	49.01	27.64	117.34	-5,278.62	1,807.43	6,327.49	6,255.42	72.06	87.805	
9,100.00	7,870.00	7,901.88	7,899.90	48.52	27.64	116.89	-5,278.62	1,807.41	6,227.50	6,155.43	72.07	86.413	
9,200.00	7,870.00	7,901.00	7,899.02	48.06	27.64	116.44	-5,278.63	1,807.40	6,127.51	6,055.44	72.07	85.021	
9,300.00	7,870.00	7,900.13	7,898.15	47.63	27.63	115.99	-5,278.64	1,807.38	6,027.53	5,955.45	72.08	83.627	
9,400.00	7,870.00	7,899.28	7,897.29	47.22	27.63	115.55	-5,278.64	1,807.36	5,927.54	5,855.46	72.08	82.233	
9,500.00	7,870.00	7,898.43	7,896.45	46.83	27.63	115.11	-5,278.65	1,807.34	5,827.56	5,755.47	72.09	80.838	
9,600.00	7,870.00	7,897.59	7,895.61	46.48	27.62	114.67	-5,278.65	1,807.32	5,727.57	5,655.47	72.10	79.441	
9,700.00	7,870.00	7,896.76	7,894.77	46.14	27.62	114.23	-5,278.66	1,807.30	5,627.59	5,555.48	72.11	78.044	
9,800.00	7,870.00	7,895.93	7,893.95	45.83	27.62	113.78	-5,278.67	1,807.29	5,527.60	5,455.48	72.12	76.646	
9,900.00	7,870.00	7,895.11	7,893.12	45.54	27.61	113.34	-5,278.67	1,807.27	5,427.62	5,355.49	72.13	75.248	
10,000.00	7,870.00	7,894.29	7,892.31	45.27	27.61	112.90	-5,278.68	1,807.25	5,327.63	5,255.49	72.14	73.848	
10,100.00	7,870.00	7,893.48	7,891.50	45.03	27.61	112.46	-5,278.68	1,807.24	5,227.65	5,155.50	72.16	72.448	
10,200.00	7,870.00	7,892.67	7,890.69	44.82	27.61	112.02	-5,278.69	1,807.22	5,127.67	5,055.50	72.17	71.047	
10,300.00	7,870.00	7,891.87	7,889.89	44.66	27.60	111.59	-5,278.69	1,807.20	5,027.69	4,955.50	72.19	69.646	
10,400.00	7,870.00	7,891.08	7,889.10	44.56	27.60	111.15	-5,278.70	1,807.18	4,927.71	4,855.50	72.21	68.244	
10,500.00	7,870.00	7,890.29	7,888.31	44.58	27.60	110.71	-5,278.70	1,807.17	4,827.73	4,755.50	72.23	66.842	
10,600.00	7,870.00	7,889.51	7,887.52	44.82	27.60	110.27	-5,278.71	1,807.15	4,727.75	4,655.50	72.25	65.438	
10,700.00	7,870.00	7,888.73	7,886.75	45.36	27.59	109.83	-5,278.71	1,807.14	4,627.77	4,555.50	72.27	64.035	
10,800.00	7,870.00	7,887.96	7,885.97	46.15	27.59	109.40	-5,278.72	1,807.12	4,527.79	4,455.50	72.29	62.631	
10,900.00	7,870.00	7,887.19	7,885.21	47.09	27.59	108.96	-5,278.72	1,807.10	4,427.81	4,355.50	72.32	61.227	
11,000.00	7,870.00	7,886.43	7,884.44	48.13	27.58	108.53	-5,278.73	1,807.09	4,327.84	4,255.49	72.35	59.822	
11,100.00	7,870.00	7,885.67	7,883.69	49.22	27.58	108.10	-5,278.73	1,807.07	4,227.86	4,155.49	72.37	58.417	
11,200.00	7,870.00	7,884.92	7,882.93	50.37	27.58	107.66	-5,278.74	1,807.06	4,127.89	4,055.49	72.40	57.011	
11,300.00	7,870.00	7,884.17	7,882.19	51.55	27.58	107.23	-5,278.74	1,807.04	4,027.92	3,955.48	72.44	55.606	
11,400.00	7,870.00	7,883.43	7,881.45	52.76	27.57	106.80	-5,278.75	1,807.03	3,927.95	3,855.47	72.47	54.200	
11,500.00	7,870.00	7,882.69	7,880.71	54.00	27.57	106.37	-5,278.75	1,807.01	3,827.98	3,755.47	72.51	52.794	
11,600.00	7,870.00	7,881.96	7,879.98	55.27	27.57	105.94	-5,278.76	1,807.00	3,728.01	3,655.46	72.55	51.388	
11,700.00	7,870.00	7,881.23	7,879.25	56.56	27.57	105.52	-5,278.76	1,806.98	3,628.04	3,555.45	72.59	49.981	
11,800.00	7,870.00	7,880.51	7,878.53	57.88	27.56	105.09	-5,278.77	1,806.97	3,528.07	3,455.44	72.63	48.575	
11,900.00	7,870.00	7,879.79	7,877.81	59.21	27.56	104.67	-5,278.77	1,806.95	3,428.11	3,355.43	72.68	47.168	
12,000.00	7,870.00	7,879.07	7,877.09	60.57	27.56	104.24	-5,278.78	1,806.94	3,328.15	3,255.42	72.73	45.762	
12,100.00	7,870.00	7,878.36	7,876.38	61.94	27.56	103.82	-5,278.78	1,806.92	3,228.19	3,155.41	72.78	44.356	
12,200.00	7,870.00	7,877.66	7,875.68	63.33	27.55	103.40	-5,278.78	1,806.91	3,128.23	3,055.40	72.84	42.949	
12,300.00	7,870.00	7,876.96	7,874.98	64.74	27.55	102.98	-5,278.79	1,806.89	3,028.28	2,955.39	72.90	41.543	
12,400.00	7,870.00	7,876.26	7,874.29	66.16	27.55	102.56	-5,278.79	1,806.88	2,928.33	2,855.37	72.96	40.137	
12,500.00	7,870.00	7,875.57	7,873.59	67.59	27.55	102.14	-5,278.80	1,806.87	2,828.38	2,755.36	73.03	38.731	
12,600.00	7,870.00	7,874.89	7,872.91	69.04	27.54	101.73	-5,278.80	1,806.85	2,728.44	2,655.34	73.10	37.325	
12,700.00	7,870.00	7,874.20	7,872.23	70.51	27.54	101.32	-5,278.81	1,806.84	2,628.50	2,555.32	73.18	35.920	
12,800.00	7,870.00	7,873.53	7,871.55	71.98	27.54	100.90	-5,278.81	1,806.83	2,528.56	2,455.30	73.26	34.515	
12,900.00	7,870.00	7,872.85	7,870.87	73.47	27.54	100.49	-5,278.81	1,806.81	2,428.63	2,355.28	73.35	33.110	
13,000.00	7,870.00	7,872.18	7,870.21	74.96	27.54	100.08	-5,278.82	1,806.80	2,328.71	2,255.26	73.45	31.705	
13,100.00	7,870.00	7,871.52	7,869.54	76.47	27.53	99.68	-5,278.82	1,806.79	2,228.79	2,155.24	73.55	30.301	
13,200.00	7,870.00	7,870.86	7,868.88	77.99	27.53	99.27	-5,278.83	1,806.77	2,128.88	2,055.21	73.67	28.898	
13,300.00	7,870.00	7,870.20	7,868.22	79.51	27.53	98.87	-5,278.83	1,806.76	2,028.98	1,955.18	73.80	27.494	
13,400.00	7,870.00	7,869.55	7,867.57	81.05	27.53	98.47	-5,278.83	1,806.75	1,929.09	1,855.15	73.93	26.092	
13,500.00	7,870.00	7,868.90	7,866.92	82.59	27.52	98.07	-5,278.84	1,806.73	1,829.21	1,755.12	74.09	24.690	
13,600.00	7,870.00	7,868.26	7,866.28	84.14	27.52	97.67	-5,278.84	1,806.72	1,729.34	1,655.08	74.26	23.288	
13,700.00	7,870.00	7,867.61	7,865.64	85.70	27.52	97.27	-5,278.85	1,806.71	1,629.49	1,555.04	74.45	21.887	
13,800.00	7,870.00	7,866.98	7,865.00	87.26	27.52	96.88	-5,278.85	1,806.70	1,529.66	1,455.00	74.67	20.487	
13,900.00	7,870.00	7,866.34	7,864.37	88.83	27.52	96.48	-5,278.85	1,806.68	1,429.86	1,354.94	74.91	19.087	
14,000.00	7,870.00	7,865.72	7,863.74	90.41	27.51	96.09	-5,278.86	1,806.67	1,330.08	1,254.88	75.19	17.688	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY — **Offset Site Error:** 0.00 usft

Survey Program: 100-MWD OWSG — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	7,865.09	7,863.11	92.00	27.51	95.70	-5,278.86	1,806.66	1,230.34	1,154.81	75.52	16.291	
14,200.00	7,870.00	7,864.47	7,862.49	93.59	27.51	95.32	-5,278.86	1,806.65	1,130.64	1,054.72	75.91	14.894	
14,300.00	7,870.00	7,863.85	7,861.88	95.18	27.51	94.93	-5,278.87	1,806.64	1,031.00	954.62	76.38	13.498	
14,400.00	7,870.00	7,863.24	7,861.26	96.79	27.50	94.55	-5,278.87	1,806.62	931.44	854.48	76.96	12.104	
14,500.00	7,870.00	7,862.63	7,860.65	98.39	27.50	94.17	-5,278.88	1,806.61	831.98	754.30	77.67	10.711	
14,600.00	7,870.00	7,862.02	7,860.04	100.00	27.50	93.79	-5,278.88	1,806.60	732.67	654.06	78.61	9.321	
14,700.00	7,870.00	7,861.42	7,859.44	101.62	27.50	93.41	-5,278.88	1,806.59	633.58	553.72	79.85	7.934	
14,800.00	7,870.00	7,860.82	7,858.84	103.24	27.50	93.03	-5,278.89	1,806.58	534.82	453.21	81.61	6.553	
14,900.00	7,870.00	7,860.22	7,858.25	104.87	27.49	92.66	-5,278.89	1,806.57	436.63	352.39	84.24	5.183	
15,000.00	7,870.00	7,859.63	7,857.66	106.50	27.49	92.29	-5,278.89	1,806.55	339.49	250.97	88.52	3.835	
15,100.00	7,870.00	7,859.04	7,857.07	108.13	27.49	91.92	-5,278.90	1,806.54	244.67	148.30	96.38	2.539	
15,200.00	7,870.00	7,858.46	7,856.48	109.77	27.49	91.56	-5,278.90	1,806.53	156.44	43.58	112.86	1.386	Level 3
15,300.00	7,870.00	7,857.88	7,855.90	111.41	27.49	91.19	-5,278.90	1,806.52	95.31	-43.38	138.69	0.687	Level 1
15,326.96	7,870.00	7,857.72	7,855.74	111.85	27.49	91.09	-5,278.90	1,806.52	91.42	-46.18	137.60	0.664	Level 1, CC, ES, SF
15,400.00	7,870.00	7,857.30	7,855.32	113.05	27.48	90.83	-5,278.91	1,806.51	117.02	10.22	106.80	1.096	Level 2
15,500.00	7,870.00	7,856.72	7,854.75	114.70	27.48	90.47	-5,278.91	1,806.50	195.71	117.13	78.57	2.491	
15,600.00	7,870.00	7,856.15	7,854.17	116.35	27.48	90.11	-5,278.91	1,806.49	287.94	217.36	70.58	4.080	
15,700.00	7,870.00	7,855.58	7,853.61	118.00	27.48	89.75	-5,278.92	1,806.48	384.08	315.56	68.52	5.606	
15,800.00	7,870.00	7,855.02	7,853.04	119.66	27.48	89.40	-5,278.92	1,806.47	481.79	413.67	68.12	7.073	
15,900.00	7,870.00	7,854.45	7,852.48	121.32	27.47	89.05	-5,278.92	1,806.46	580.28	512.05	68.23	8.505	
16,000.00	7,870.00	7,853.90	7,851.92	122.98	27.47	88.70	-5,278.93	1,806.44	679.21	610.73	68.49	9.918	
16,100.00	7,870.00	7,853.34	7,851.37	124.65	27.47	88.35	-5,278.93	1,806.43	778.42	709.64	68.78	11.318	
16,200.00	7,870.00	7,852.79	7,850.81	126.32	27.47	88.01	-5,278.93	1,806.42	877.80	808.74	69.07	12.709	
16,300.00	7,870.00	7,852.24	7,850.27	127.99	27.47	87.66	-5,278.93	1,806.41	977.31	907.98	69.34	14.095	
16,400.00	7,870.00	7,851.69	7,849.72	129.66	27.46	87.32	-5,278.94	1,806.40	1,076.91	1,007.33	69.59	15.476	
16,500.00	7,870.00	7,851.15	7,849.18	131.33	27.46	86.98	-5,278.94	1,806.39	1,176.58	1,106.77	69.81	16.854	
16,600.00	7,870.00	7,850.61	7,848.64	133.01	27.46	86.65	-5,278.94	1,806.38	1,276.30	1,206.28	70.02	18.228	
16,700.00	7,870.00	7,850.07	7,848.10	134.69	27.46	86.31	-5,278.95	1,806.37	1,376.06	1,305.85	70.21	19.600	
16,800.00	7,870.00	7,849.54	7,847.57	136.37	27.46	85.98	-5,278.95	1,806.36	1,475.85	1,405.47	70.38	20.969	
16,900.00	7,870.00	7,849.01	7,847.04	138.06	27.46	85.65	-5,278.95	1,806.35	1,575.67	1,505.13	70.55	22.336	
17,000.00	7,870.00	7,848.48	7,846.51	139.74	27.45	85.32	-5,278.96	1,806.34	1,675.51	1,604.82	70.70	23.700	
17,100.00	7,870.00	7,847.96	7,845.98	141.43	27.45	85.00	-5,278.96	1,806.33	1,775.37	1,704.53	70.84	25.063	
17,200.00	7,870.00	7,847.44	7,845.46	143.12	27.45	84.67	-5,278.96	1,806.32	1,875.24	1,804.27	70.97	26.423	
17,300.00	7,870.00	7,846.92	7,844.94	144.81	27.45	84.35	-5,278.96	1,806.31	1,975.13	1,904.03	71.10	27.781	
17,400.00	7,870.00	7,846.40	7,844.43	146.50	27.45	84.04	-5,278.97	1,806.30	2,075.03	2,003.81	71.21	29.138	
17,500.00	7,870.00	7,845.89	7,843.91	148.19	27.44	83.72	-5,278.97	1,806.30	2,174.93	2,103.60	71.33	30.492	
17,600.00	7,870.00	7,845.38	7,843.40	149.89	27.44	83.40	-5,278.97	1,806.29	2,274.85	2,203.41	71.44	31.844	
17,700.00	7,870.00	7,844.87	7,842.90	151.59	27.44	83.09	-5,278.97	1,806.28	2,374.77	2,303.23	71.54	33.194	
17,800.00	7,870.00	7,844.37	7,842.39	153.29	27.44	82.78	-5,278.98	1,806.27	2,474.69	2,403.05	71.64	34.542	
17,900.00	7,870.00	7,843.86	7,841.89	154.99	27.44	82.47	-5,278.98	1,806.26	2,574.63	2,502.89	71.74	35.888	
18,000.00	7,870.00	7,843.36	7,841.39	156.69	27.44	82.17	-5,278.98	1,806.25	2,674.57	2,602.73	71.83	37.232	
18,100.00	7,870.00	7,842.87	7,840.89	158.39	27.43	81.86	-5,278.99	1,806.24	2,774.51	2,702.58	71.93	38.574	
18,200.00	7,870.00	7,842.37	7,840.40	160.09	27.43	81.56	-5,278.99	1,806.23	2,874.45	2,802.44	72.02	39.914	
18,300.00	7,870.00	7,841.88	7,839.91	161.80	27.43	81.26	-5,278.99	1,806.22	2,974.40	2,902.30	72.10	41.252	
18,400.00	7,870.00	7,841.39	7,839.42	163.51	27.43	80.97	-5,278.99	1,806.21	3,074.36	3,002.17	72.19	42.588	
18,455.45	7,870.00	7,841.12	7,839.15	164.45	27.43	80.80	-5,278.99	1,806.21	3,129.78	3,057.55	72.24	43.328	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.32	-5,618.12	5,753.96	8,041.90				
100.00	100.00	71.00	71.00	0.13	0.55	134.32	-5,618.12	5,753.96	8,041.84	8,041.16	0.68	N/A	
200.00	200.00	171.00	171.00	0.49	2.01	134.32	-5,618.12	5,753.96	8,041.84	8,039.34	2.50	3,216.701	
300.00	300.00	271.00	271.00	0.85	3.75	134.32	-5,618.12	5,753.96	8,041.84	8,037.24	4.60	1,746.773	
400.00	400.00	371.00	371.00	1.21	5.50	134.32	-5,618.12	5,753.96	8,041.84	8,035.14	6.71	1,198.910	
500.00	500.00	471.00	471.00	1.57	7.24	134.32	-5,618.12	5,753.96	8,041.84	8,033.03	8.81	912.660	
600.00	600.00	571.00	571.00	1.93	8.99	134.32	-5,618.12	5,753.96	8,041.84	8,030.93	10.92	736.754	
700.00	700.00	671.00	671.00	2.29	10.73	134.32	-5,618.12	5,753.96	8,041.84	8,028.82	13.02	617.699	
800.00	800.00	771.00	771.00	2.64	12.48	134.32	-5,618.12	5,753.96	8,041.84	8,026.72	15.12	531.768	
900.00	900.00	871.00	871.00	3.00	14.22	134.32	-5,618.12	5,753.96	8,041.84	8,024.62	17.23	466.826	
1,000.00	1,000.00	971.00	971.00	3.36	15.97	134.32	-5,618.12	5,753.96	8,041.84	8,022.51	19.33	416.020	
1,100.00	1,100.00	1,071.00	1,071.00	3.72	17.72	134.32	-5,618.12	5,753.96	8,041.84	8,020.41	21.43	375.187	
1,200.00	1,200.00	1,171.00	1,171.00	4.08	19.46	134.32	-5,618.12	5,753.96	8,041.84	8,018.30	23.54	341.653	
1,300.00	1,300.00	1,271.00	1,271.00	4.44	21.21	134.32	-5,618.12	5,753.96	8,041.84	8,016.20	25.64	313.622	
1,400.00	1,399.98	1,370.98	1,370.98	4.79	22.95	91.38	-5,618.12	5,753.96	8,041.88	8,014.14	27.74	289.874	
1,500.00	1,499.84	1,470.84	1,470.84	5.15	24.69	91.42	-5,618.12	5,753.96	8,042.01	8,012.17	29.84	269.504	
1,600.00	1,599.45	1,570.45	1,570.45	5.51	26.43	91.48	-5,618.12	5,753.96	8,042.23	8,010.30	31.94	251.822	
1,700.00	1,698.70	1,669.70	1,669.70	5.87	28.16	91.56	-5,618.12	5,753.96	8,042.56	8,008.53	34.03	236.320	
1,800.00	1,797.47	1,768.47	1,768.47	6.24	29.89	91.66	-5,618.12	5,753.96	8,043.00	8,006.87	36.13	222.608	
1,900.00	1,895.62	1,866.62	1,866.62	6.63	31.60	91.78	-5,618.12	5,753.96	8,043.59	8,005.35	38.23	210.380	
2,000.00	1,993.06	1,964.06	1,964.06	7.04	33.30	91.92	-5,618.12	5,753.96	8,044.33	8,003.99	40.34	199.393	
2,100.00	2,089.64	2,060.64	2,060.64	7.48	34.99	92.08	-5,618.12	5,753.96	8,045.27	8,002.80	42.47	189.455	
2,200.00	2,185.27	2,156.27	2,156.27	7.94	36.66	92.25	-5,618.12	5,753.96	8,046.42	8,001.82	44.60	180.411	
2,300.00	2,279.82	2,250.82	2,250.82	8.45	38.31	92.45	-5,618.12	5,753.96	8,047.83	8,001.08	46.75	172.136	
2,400.00	2,373.17	2,344.17	2,344.17	8.99	39.94	92.65	-5,618.12	5,753.96	8,049.54	8,000.62	48.92	164.529	
2,500.00	2,465.21	2,436.21	2,436.21	9.58	41.54	92.86	-5,618.12	5,753.96	8,051.58	8,000.46	51.12	157.508	
2,574.08	2,532.50	2,503.50	2,503.50	10.04	42.72	93.03	-5,618.12	5,753.96	8,053.34	8,000.58	52.76	152.645	
2,600.00	2,555.89	2,526.89	2,526.89	10.21	43.13	93.10	-5,618.12	5,753.96	8,054.00	8,000.66	53.34	151.008	
2,700.00	2,646.16	2,617.16	2,617.16	10.88	44.70	93.38	-5,618.12	5,753.96	8,056.69	8,001.11	55.58	144.963	
2,800.00	2,736.44	2,707.44	2,707.44	11.57	46.28	93.65	-5,618.12	5,753.96	8,059.61	8,001.77	57.84	139.340	
2,900.00	2,826.71	2,802.29	2,797.71	12.27	47.93	93.93	-5,618.12	5,753.96	8,062.76	8,002.56	60.20	133.927	
3,000.00	2,916.98	2,887.98	2,887.98	13.00	49.43	94.20	-5,618.12	5,753.96	8,066.14	8,003.72	62.42	129.228	
3,100.00	3,007.25	2,978.25	2,978.25	13.73	51.00	94.48	-5,618.12	5,753.96	8,069.74	8,005.02	64.73	124.676	
3,200.00	3,097.52	3,068.52	3,068.52	14.48	52.58	94.75	-5,618.12	5,753.96	8,073.57	8,006.53	67.04	120.424	
3,300.00	3,187.80	3,158.80	3,158.80	15.23	54.15	95.03	-5,618.12	5,753.96	8,077.63	8,008.26	69.37	116.444	
3,400.00	3,278.07	3,249.07	3,249.07	15.99	55.73	95.30	-5,618.12	5,753.96	8,081.92	8,010.22	71.70	112.715	
3,500.00	3,368.34	3,339.34	3,339.34	16.76	57.31	95.58	-5,618.12	5,753.96	8,086.43	8,012.39	74.04	109.215	
3,600.00	3,458.61	3,429.61	3,429.61	17.54	58.88	95.85	-5,618.12	5,753.96	8,091.17	8,014.79	76.39	105.926	
3,700.00	3,548.89	3,519.89	3,519.89	18.32	60.46	96.12	-5,618.12	5,753.96	8,096.14	8,017.41	78.73	102.830	
3,800.00	3,639.16	3,610.16	3,610.16	19.10	62.03	96.40	-5,618.12	5,753.96	8,101.33	8,020.25	81.09	99.911	
3,900.00	3,729.43	3,700.43	3,700.43	19.89	63.61	96.67	-5,618.12	5,753.96	8,106.75	8,023.31	83.44	97.157	
4,000.00	3,819.70	3,809.30	3,790.70	20.69	65.51	96.94	-5,618.12	5,753.96	8,112.39	8,026.27	86.12	94.197	
4,100.00	3,909.98	3,880.98	3,880.98	21.48	66.76	97.22	-5,618.12	5,753.96	8,118.25	8,030.10	88.16	92.089	
4,200.00	4,000.25	3,971.25	3,971.25	22.28	68.33	97.49	-5,618.12	5,753.96	8,124.34	8,033.82	90.52	89.754	
4,300.00	4,090.52	4,061.52	4,061.52	23.08	69.91	97.76	-5,618.12	5,753.96	8,130.65	8,037.77	92.88	87.539	
4,400.00	4,180.79	4,151.79	4,151.79	23.88	71.49	98.03	-5,618.12	5,753.96	8,137.19	8,041.94	95.24	85.436	
4,500.00	4,271.06	4,242.06	4,242.06	24.69	73.06	98.30	-5,618.12	5,753.96	8,143.94	8,046.33	97.61	83.436	
4,600.00	4,361.34	4,332.34	4,332.34	25.49	74.64	98.57	-5,618.12	5,753.96	8,150.92	8,050.95	99.97	81.532	
4,700.00	4,451.61	4,422.61	4,422.61	26.30	76.21	98.85	-5,618.12	5,753.96	8,158.12	8,055.78	102.34	79.718	
4,800.00	4,541.88	4,512.88	4,512.88	27.11	77.79	99.12	-5,618.12	5,753.96	8,165.54	8,060.84	104.70	77.989	
4,900.00	4,632.15	4,603.15	4,603.15	27.92	79.36	99.38	-5,618.12	5,753.96	8,173.18	8,066.11	107.07	76.337	
5,000.00	4,722.43	4,706.57	4,693.43	28.74	81.17	99.65	-5,618.12	5,753.96	8,181.03	8,071.37	109.66	74.603	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,783.70	4,783.70	29.55	82.51	99.92	-5,618.12	5,753.96	8,189.11	8,077.31	111.80	73.251	
5,200.00	4,902.97	4,873.97	4,873.97	30.37	84.09	100.19	-5,618.12	5,753.96	8,197.40	8,083.24	114.16	71.806	
5,300.00	4,993.24	4,964.24	4,964.24	31.18	85.66	100.46	-5,618.12	5,753.96	8,205.91	8,089.39	116.52	70.423	
5,400.00	5,083.51	5,054.51	5,054.51	32.00	87.24	100.73	-5,618.12	5,753.96	8,214.64	8,095.76	118.89	69.097	
5,500.00	5,173.79	5,144.79	5,144.79	32.82	88.82	100.99	-5,618.12	5,753.96	8,223.59	8,102.34	121.25	67.825	
5,600.00	5,264.06	5,235.06	5,235.06	33.63	90.39	101.26	-5,618.12	5,753.96	8,232.74	8,109.14	123.61	66.603	
5,700.00	5,354.33	5,325.33	5,325.33	34.45	91.97	101.53	-5,618.12	5,753.96	8,242.12	8,116.15	125.97	65.430	
5,800.00	5,444.60	5,415.60	5,415.60	35.27	93.54	101.79	-5,618.12	5,753.96	8,251.70	8,123.38	128.33	64.302	
5,900.00	5,534.88	5,505.88	5,505.88	36.09	95.12	102.06	-5,618.12	5,753.96	8,261.50	8,130.82	130.68	63.217	
6,000.00	5,625.15	5,603.85	5,596.15	36.91	96.83	102.32	-5,618.12	5,753.96	8,271.51	8,138.34	133.18	62.110	
6,100.00	5,715.42	5,686.42	5,686.42	37.74	98.27	102.58	-5,618.12	5,753.96	8,281.74	8,146.34	135.40	61.167	
6,200.00	5,805.69	5,776.69	5,776.69	38.56	99.84	102.85	-5,618.12	5,753.96	8,292.17	8,154.42	137.75	60.197	
6,300.00	5,895.96	5,866.96	5,866.96	39.38	101.42	103.11	-5,618.12	5,753.96	8,302.81	8,162.71	140.10	59.263	
6,400.00	5,986.24	5,957.24	5,957.24	40.20	103.00	103.37	-5,618.12	5,753.96	8,313.67	8,171.22	142.45	58.361	
6,500.00	6,076.51	6,047.51	6,047.51	41.03	104.57	103.63	-5,618.12	5,753.96	8,324.73	8,179.93	144.80	57.491	
6,600.00	6,166.78	6,137.78	6,137.78	41.85	106.15	103.90	-5,618.12	5,753.96	8,336.00	8,188.85	147.15	56.650	
6,700.00	6,257.05	6,228.05	6,228.05	42.67	107.72	104.16	-5,618.12	5,753.96	8,347.47	8,197.98	149.49	55.838	
6,800.00	6,347.33	6,318.33	6,318.33	43.50	109.30	104.42	-5,618.12	5,753.96	8,359.15	8,207.31	151.84	55.053	
6,900.00	6,437.60	6,408.60	6,408.60	44.32	110.87	104.68	-5,618.12	5,753.96	8,371.04	8,216.86	154.18	54.294	
7,000.00	6,527.87	6,501.13	6,498.87	45.15	112.49	104.93	-5,618.12	5,753.96	8,383.13	8,226.56	156.56	53.546	
7,100.00	6,618.14	6,589.14	6,589.14	45.98	114.02	105.19	-5,618.12	5,753.96	8,395.42	8,236.56	158.86	52.848	
7,200.00	6,708.41	6,679.41	6,679.41	46.80	115.60	105.45	-5,618.12	5,753.96	8,407.91	8,246.72	161.20	52.159	
7,300.00	6,798.69	6,769.69	6,769.69	47.63	117.18	105.71	-5,618.12	5,753.96	8,420.61	8,257.08	163.53	51.492	
7,400.00	6,888.96	6,859.96	6,859.96	48.45	118.75	105.96	-5,618.12	5,753.96	8,433.50	8,267.64	165.86	50.846	
7,500.00	6,979.23	6,950.23	6,950.23	49.28	120.33	106.22	-5,618.12	5,753.96	8,446.60	8,278.40	168.19	50.219	
7,600.00	7,069.50	7,040.50	7,040.50	50.11	121.90	106.47	-5,618.12	5,753.96	8,459.89	8,289.37	170.52	49.611	
7,692.09	7,152.63	7,123.63	7,123.63	50.87	123.35	106.71	-5,618.12	5,753.96	8,472.31	8,299.64	172.67	49.068	
7,700.00	7,159.79	7,130.79	7,130.79	50.93	123.48	105.56	-5,618.12	5,753.96	8,473.34	8,300.49	172.85	49.021	
7,750.00	7,205.70	7,176.70	7,176.70	51.32	124.28	96.82	-5,618.12	5,753.96	8,477.62	8,303.61	174.01	48.719	
7,800.00	7,252.52	7,223.52	7,223.52	51.66	125.10	85.21	-5,618.12	5,753.96	8,478.07	8,302.91	175.16	48.402	
7,850.00	7,299.89	7,270.89	7,270.89	51.96	125.92	70.91	-5,618.12	5,753.96	8,474.67	8,298.39	176.29	48.073	
7,900.00	7,347.44	7,318.44	7,318.44	52.20	126.75	55.30	-5,618.12	5,753.96	8,467.44	8,290.06	177.38	47.736	
7,950.00	7,394.83	7,365.83	7,365.83	52.39	127.58	40.51	-5,618.12	5,753.96	8,456.43	8,277.99	178.43	47.393	
8,000.00	7,441.68	7,412.68	7,412.68	52.53	128.40	27.97	-5,618.12	5,753.96	8,441.70	8,262.26	179.43	47.046	
8,050.00	7,487.65	7,458.65	7,458.65	52.62	129.20	17.88	-5,618.12	5,753.96	8,423.36	8,242.98	180.38	46.697	
8,100.00	7,532.37	7,503.37	7,503.37	52.67	129.98	9.77	-5,618.12	5,753.96	8,401.55	8,220.27	181.27	46.347	
8,150.00	7,575.52	7,546.52	7,546.52	52.67	130.73	3.05	-5,618.12	5,753.96	8,376.42	8,194.32	182.10	45.999	
8,200.00	7,616.76	7,587.76	7,587.76	52.63	131.45	-2.81	-5,618.12	5,753.96	8,348.18	8,165.31	182.86	45.653	
8,250.00	7,655.77	7,626.77	7,626.77	52.55	132.13	-8.21	-5,618.12	5,753.96	8,317.02	8,133.47	183.55	45.312	
8,300.00	7,692.27	7,663.27	7,663.27	52.44	132.77	-13.47	-5,618.12	5,753.96	8,283.20	8,099.04	184.16	44.977	
8,350.00	7,725.97	7,703.03	7,696.97	52.29	133.47	-18.89	-5,618.12	5,753.96	8,246.97	8,062.17	184.80	44.626	
8,400.00	7,756.62	7,727.62	7,727.62	52.12	133.90	-24.72	-5,618.12	5,753.96	8,208.62	8,023.47	185.15	44.335	
8,450.00	7,783.98	7,754.98	7,754.98	51.92	134.37	-31.19	-5,618.12	5,753.96	8,168.44	7,982.92	185.52	44.030	
8,500.00	7,807.85	7,778.85	7,778.85	51.70	134.79	-38.51	-5,618.12	5,753.96	8,126.75	7,940.94	185.80	43.739	
8,550.00	7,828.05	7,800.95	7,799.05	51.45	135.17	-46.81	-5,618.12	5,753.96	8,083.87	7,897.84	186.03	43.454	
8,600.00	7,844.41	7,815.41	7,815.41	51.20	135.43	-56.03	-5,618.12	5,753.96	8,040.16	7,854.05	186.11	43.201	
8,650.00	7,856.82	7,827.82	7,827.82	50.93	135.64	-65.90	-5,618.12	5,753.96	7,995.94	7,809.80	186.14	42.958	
8,700.00	7,865.18	7,836.18	7,836.18	50.65	135.79	-75.89	-5,618.12	5,753.96	7,951.58	7,765.50	186.08	42.733	
8,750.00	7,869.43	7,840.43	7,840.43	50.36	135.86	-85.39	-5,618.12	5,753.96	7,907.41	7,721.48	185.93	42.528	
8,776.25	7,870.00	7,841.00	7,841.00	50.21	135.87	-90.00	-5,618.12	5,753.96	7,884.42	7,698.60	185.83	42.429	
8,800.00	7,870.00	7,841.00	7,841.00	50.08	135.87	-90.00	-5,618.12	5,753.96	7,863.72	7,678.00	185.72	42.342	
8,900.00	7,870.00	7,841.00	7,841.00	49.53	135.87	-90.00	-5,618.12	5,753.96	7,776.73	7,591.46	185.27	41.975	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,841.00	7,841.00	49.01	135.87	-90.00	-5,618.12	5,753.96	7,690.06	7,505.24	184.82	41.608	
9,100.00	7,870.00	7,841.00	7,841.00	48.52	135.87	-90.00	-5,618.12	5,753.96	7,603.71	7,419.34	184.38	41.240	
9,200.00	7,870.00	7,841.00	7,841.00	48.06	135.87	-90.00	-5,618.12	5,753.96	7,517.70	7,333.77	183.93	40.872	
9,300.00	7,870.00	7,841.00	7,841.00	47.63	135.87	-90.00	-5,618.12	5,753.96	7,432.05	7,248.55	183.50	40.502	
9,400.00	7,870.00	7,841.00	7,841.00	47.22	135.87	-90.00	-5,618.12	5,753.96	7,346.75	7,163.69	183.07	40.132	
9,500.00	7,870.00	7,841.00	7,841.00	46.83	135.87	-90.00	-5,618.12	5,753.96	7,261.83	7,079.19	182.64	39.760	
9,600.00	7,870.00	7,841.00	7,841.00	46.48	135.87	-90.00	-5,618.12	5,753.96	7,177.30	6,995.08	182.23	39.387	
9,700.00	7,870.00	7,841.00	7,841.00	46.14	135.87	-90.00	-5,618.12	5,753.96	7,093.17	6,911.35	181.82	39.012	
9,800.00	7,870.00	7,841.00	7,841.00	45.83	135.87	-90.00	-5,618.12	5,753.96	7,009.46	6,828.04	181.43	38.635	
9,900.00	7,870.00	7,841.00	7,841.00	45.54	135.87	-90.00	-5,618.12	5,753.96	6,926.18	6,745.14	181.05	38.256	
10,000.00	7,870.00	7,841.00	7,841.00	45.27	135.87	-90.00	-5,618.12	5,753.96	6,843.35	6,662.67	180.68	37.875	
10,100.00	7,870.00	7,841.00	7,841.00	45.03	135.87	-90.00	-5,618.12	5,753.96	6,760.98	6,580.65	180.34	37.491	
10,200.00	7,870.00	7,841.00	7,841.00	44.82	135.87	-90.00	-5,618.12	5,753.96	6,679.10	6,499.09	180.01	37.104	
10,300.00	7,870.00	7,841.00	7,841.00	44.66	135.87	-90.00	-5,618.12	5,753.96	6,597.71	6,418.00	179.71	36.714	
10,400.00	7,870.00	7,841.00	7,841.00	44.56	135.87	-90.00	-5,618.12	5,753.96	6,516.84	6,337.41	179.43	36.319	
10,500.00	7,870.00	7,841.00	7,841.00	44.58	135.87	-90.00	-5,618.12	5,753.96	6,436.51	6,257.33	179.18	35.921	
10,600.00	7,870.00	7,841.00	7,841.00	44.82	135.87	-90.00	-5,618.12	5,753.96	6,356.74	6,177.77	178.97	35.519	
10,700.00	7,870.00	7,841.00	7,841.00	45.36	135.87	-90.00	-5,618.12	5,753.96	6,277.55	6,098.76	178.79	35.111	
10,800.00	7,870.00	7,841.00	7,841.00	46.15	135.87	-90.00	-5,618.12	5,753.96	6,198.95	6,020.30	178.65	34.699	
10,900.00	7,870.00	7,841.00	7,841.00	47.09	135.87	-90.00	-5,618.12	5,753.96	6,120.99	5,942.43	178.55	34.281	
11,000.00	7,870.00	7,841.00	7,841.00	48.13	135.87	-90.00	-5,618.12	5,753.96	6,043.67	5,865.17	178.50	33.858	
11,100.00	7,870.00	7,841.00	7,841.00	49.22	135.87	-90.00	-5,618.12	5,753.96	5,967.02	5,788.52	178.50	33.428	
11,200.00	7,870.00	7,841.00	7,841.00	50.37	135.87	-90.00	-5,618.12	5,753.96	5,891.08	5,712.52	178.56	32.992	
11,300.00	7,870.00	7,841.00	7,841.00	51.55	135.87	-90.00	-5,618.12	5,753.96	5,815.86	5,637.19	178.67	32.550	
11,400.00	7,870.00	7,841.00	7,841.00	52.76	135.87	-90.00	-5,618.12	5,753.96	5,741.40	5,562.55	178.85	32.102	
11,500.00	7,870.00	7,841.00	7,841.00	54.00	135.87	-90.00	-5,618.12	5,753.96	5,667.73	5,488.64	179.09	31.647	
11,600.00	7,870.00	7,841.00	7,841.00	55.27	135.87	-90.00	-5,618.12	5,753.96	5,594.87	5,415.47	179.41	31.185	
11,700.00	7,870.00	7,841.00	7,841.00	56.56	135.87	-90.00	-5,618.12	5,753.96	5,522.87	5,343.07	179.80	30.717	
11,800.00	7,870.00	7,841.00	7,841.00	57.88	135.87	-90.00	-5,618.12	5,753.96	5,451.74	5,271.48	180.26	30.243	
11,900.00	7,870.00	7,841.00	7,841.00	59.21	135.87	-90.00	-5,618.12	5,753.96	5,381.54	5,200.73	180.81	29.764	
12,000.00	7,870.00	7,841.00	7,841.00	60.57	135.87	-90.00	-5,618.12	5,753.96	5,312.29	5,130.85	181.44	29.279	
12,100.00	7,870.00	7,841.00	7,841.00	61.94	135.87	-90.00	-5,618.12	5,753.96	5,244.03	5,061.88	182.15	28.789	
12,200.00	7,870.00	7,841.00	7,841.00	63.33	135.87	-90.00	-5,618.12	5,753.96	5,176.80	4,993.85	182.95	28.296	
12,300.00	7,870.00	7,841.00	7,841.00	64.74	135.87	-90.00	-5,618.12	5,753.96	5,110.65	4,926.81	183.85	27.799	
12,400.00	7,870.00	7,841.00	7,841.00	66.16	135.87	-90.00	-5,618.12	5,753.96	5,045.61	4,860.79	184.83	27.299	
12,500.00	7,870.00	7,841.00	7,841.00	67.59	135.87	-90.00	-5,618.12	5,753.96	4,981.73	4,795.83	185.90	26.798	
12,600.00	7,870.00	7,841.00	7,841.00	69.04	135.87	-90.00	-5,618.12	5,753.96	4,919.05	4,731.99	187.06	26.296	
12,700.00	7,870.00	7,841.00	7,841.00	70.51	135.87	-90.00	-5,618.12	5,753.96	4,857.63	4,669.31	188.32	25.795	
12,800.00	7,870.00	7,841.00	7,841.00	71.98	135.87	-90.00	-5,618.12	5,753.96	4,797.50	4,607.84	189.66	25.295	
12,900.00	7,870.00	7,841.00	7,841.00	73.47	135.87	-90.00	-5,618.12	5,753.96	4,738.72	4,547.62	191.10	24.798	
13,000.00	7,870.00	7,841.00	7,841.00	74.96	135.87	-90.00	-5,618.12	5,753.96	4,681.33	4,488.71	192.62	24.304	
13,100.00	7,870.00	7,841.00	7,841.00	76.47	135.87	-90.00	-5,618.12	5,753.96	4,625.40	4,431.17	194.23	23.814	
13,200.00	7,870.00	7,841.00	7,841.00	77.99	135.87	-90.00	-5,618.12	5,753.96	4,570.97	4,375.05	195.92	23.331	
13,300.00	7,870.00	7,841.00	7,841.00	79.51	135.87	-90.00	-5,618.12	5,753.96	4,518.10	4,320.41	197.69	22.854	
13,400.00	7,870.00	7,841.00	7,841.00	81.05	135.87	-90.00	-5,618.12	5,753.96	4,466.84	4,267.30	199.54	22.385	
13,500.00	7,870.00	7,841.00	7,841.00	82.59	135.87	-90.00	-5,618.12	5,753.96	4,417.25	4,215.78	201.47	21.925	
13,600.00	7,870.00	7,841.00	7,841.00	84.14	135.87	-90.00	-5,618.12	5,753.96	4,369.39	4,165.92	203.47	21.474	
13,700.00	7,870.00	7,841.00	7,841.00	85.70	135.87	-90.00	-5,618.12	5,753.96	4,323.31	4,117.78	205.53	21.034	
13,800.00	7,870.00	7,841.00	7,841.00	87.26	135.87	-90.00	-5,618.12	5,753.96	4,279.07	4,071.41	207.66	20.606	
13,900.00	7,870.00	7,841.00	7,841.00	88.83	135.87	-90.00	-5,618.12	5,753.96	4,236.73	4,026.88	209.85	20.189	
14,000.00	7,870.00	7,841.00	7,841.00	90.41	135.87	-90.00	-5,618.12	5,753.96	4,196.35	3,984.26	212.09	19.786	
14,100.00	7,870.00	7,841.00	7,841.00	92.00	135.87	-90.00	-5,618.12	5,753.96	4,157.98	3,943.60	214.38	19.395	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	7,841.00	7,841.00	93.59	135.87	-90.00	-5,618.12	5,753.96	4,121.68	3,904.97	216.71	19.019	
14,300.00	7,870.00	7,841.00	7,841.00	95.18	135.87	-90.00	-5,618.12	5,753.96	4,087.50	3,868.43	219.08	18.658	
14,400.00	7,870.00	7,841.00	7,841.00	96.79	135.87	-90.00	-5,618.12	5,753.96	4,055.51	3,834.03	221.48	18.311	
14,500.00	7,870.00	7,841.00	7,841.00	98.39	135.87	-90.00	-5,618.12	5,753.96	4,025.74	3,801.84	223.90	17.980	
14,600.00	7,870.00	7,841.00	7,841.00	100.00	135.87	-90.00	-5,618.12	5,753.96	3,998.25	3,771.92	226.34	17.665	
14,700.00	7,870.00	7,841.00	7,841.00	101.62	135.87	-90.00	-5,618.12	5,753.96	3,973.10	3,744.31	228.79	17.366	
14,800.00	7,870.00	7,841.00	7,841.00	103.24	135.87	-90.00	-5,618.12	5,753.96	3,950.31	3,719.07	231.24	17.083	
14,900.00	7,870.00	7,841.00	7,841.00	104.87	135.87	-90.00	-5,618.12	5,753.96	3,929.93	3,696.24	233.69	16.817	
15,000.00	7,870.00	7,841.00	7,841.00	106.50	135.87	-90.00	-5,618.12	5,753.96	3,912.01	3,675.88	236.13	16.567	
15,100.00	7,870.00	7,841.00	7,841.00	108.13	135.87	-90.00	-5,618.12	5,753.96	3,896.57	3,658.03	238.55	16.335	
15,200.00	7,870.00	7,841.00	7,841.00	109.77	135.87	-90.00	-5,618.12	5,753.96	3,883.65	3,642.71	240.94	16.119	
15,300.00	7,870.00	7,841.00	7,841.00	111.41	135.87	-90.00	-5,618.12	5,753.96	3,873.26	3,629.96	243.30	15.919	
15,400.00	7,870.00	7,841.00	7,841.00	113.05	135.87	-90.00	-5,618.12	5,753.96	3,865.44	3,619.81	245.63	15.737	
15,500.00	7,870.00	7,841.00	7,841.00	114.70	135.87	-90.00	-5,618.12	5,753.96	3,860.19	3,612.28	247.91	15.571	
15,600.00	7,870.00	7,841.00	7,841.00	116.35	135.87	-90.00	-5,618.12	5,753.96	3,857.53	3,607.39	250.13	15.422	
15,652.76	7,870.00	7,841.00	7,841.00	117.22	135.87	-90.00	-5,618.12	5,753.96	3,857.17	3,605.88	251.29	15.350	CC
15,700.00	7,870.00	7,841.00	7,841.00	118.00	135.87	-90.00	-5,618.12	5,753.96	3,857.45	3,605.15	252.30	15.289	ES
15,800.00	7,870.00	7,841.00	7,841.00	119.66	135.87	-90.00	-5,618.12	5,753.96	3,859.97	3,605.57	254.41	15.172	
15,900.00	7,870.00	7,841.00	7,841.00	121.32	135.87	-90.00	-5,618.12	5,753.96	3,865.08	3,608.63	256.45	15.072	
16,000.00	7,870.00	7,841.00	7,841.00	122.98	135.87	-90.00	-5,618.12	5,753.96	3,872.76	3,614.35	258.42	14.986	
16,100.00	7,870.00	7,841.00	7,841.00	124.65	135.87	-90.00	-5,618.12	5,753.96	3,883.01	3,622.70	260.31	14.917	
16,200.00	7,870.00	7,841.00	7,841.00	126.32	135.87	-90.00	-5,618.12	5,753.96	3,895.79	3,633.67	262.13	14.862	
16,300.00	7,870.00	7,841.00	7,841.00	127.99	135.87	-90.00	-5,618.12	5,753.96	3,911.09	3,647.23	263.86	14.823	
16,400.00	7,870.00	7,841.00	7,841.00	129.66	135.87	-90.00	-5,618.12	5,753.96	3,928.88	3,663.37	265.51	14.798	
16,500.00	7,870.00	7,841.00	7,841.00	131.33	135.87	-90.00	-5,618.12	5,753.96	3,949.12	3,682.04	267.07	14.787	SF
16,600.00	7,870.00	7,841.00	7,841.00	133.01	135.87	-90.00	-5,618.12	5,753.96	3,971.77	3,703.22	268.55	14.790	
16,700.00	7,870.00	7,841.00	7,841.00	134.69	135.87	-90.00	-5,618.12	5,753.96	3,996.80	3,726.86	269.95	14.806	
16,800.00	7,870.00	7,841.00	7,841.00	136.37	135.87	-90.00	-5,618.12	5,753.96	4,024.16	3,752.91	271.26	14.835	
16,900.00	7,870.00	7,841.00	7,841.00	138.06	135.87	-90.00	-5,618.12	5,753.96	4,053.80	3,781.33	272.48	14.878	
17,000.00	7,870.00	7,841.00	7,841.00	139.74	135.87	-90.00	-5,618.12	5,753.96	4,085.68	3,812.06	273.62	14.932	
17,100.00	7,870.00	7,841.00	7,841.00	141.43	135.87	-90.00	-5,618.12	5,753.96	4,119.74	3,845.06	274.67	14.999	
17,200.00	7,870.00	7,841.00	7,841.00	143.12	135.87	-90.00	-5,618.12	5,753.96	4,155.92	3,880.27	275.65	15.077	
17,300.00	7,870.00	7,841.00	7,841.00	144.81	135.87	-90.00	-5,618.12	5,753.96	4,194.18	3,917.63	276.55	15.166	
17,400.00	7,870.00	7,841.00	7,841.00	146.50	135.87	-90.00	-5,618.12	5,753.96	4,234.45	3,957.08	277.37	15.267	
17,500.00	7,870.00	7,841.00	7,841.00	148.19	135.87	-90.00	-5,618.12	5,753.96	4,276.68	3,998.57	278.12	15.377	
17,600.00	7,870.00	7,841.00	7,841.00	149.89	135.87	-90.00	-5,618.12	5,753.96	4,320.82	4,042.02	278.79	15.498	
17,700.00	7,870.00	7,841.00	7,841.00	151.59	135.87	-90.00	-5,618.12	5,753.96	4,366.80	4,087.39	279.40	15.629	
17,800.00	7,870.00	7,841.00	7,841.00	153.29	135.87	-90.00	-5,618.12	5,753.96	4,414.56	4,134.62	279.95	15.769	
17,900.00	7,870.00	7,841.00	7,841.00	154.99	135.87	-90.00	-5,618.12	5,753.96	4,464.06	4,183.63	280.43	15.919	
18,000.00	7,870.00	7,841.00	7,841.00	156.69	135.87	-90.00	-5,618.12	5,753.96	4,515.22	4,234.37	280.85	16.077	
18,100.00	7,870.00	7,841.00	7,841.00	158.39	135.87	-90.00	-5,618.12	5,753.96	4,568.01	4,286.79	281.22	16.244	
18,200.00	7,870.00	7,841.00	7,841.00	160.09	135.87	-90.00	-5,618.12	5,753.96	4,622.35	4,340.82	281.53	16.418	
18,300.00	7,870.00	7,841.00	7,841.00	161.80	135.87	-90.00	-5,618.12	5,753.96	4,678.20	4,396.40	281.80	16.601	
18,400.00	7,870.00	7,841.00	7,841.00	163.51	135.87	-90.00	-5,618.12	5,753.96	4,735.51	4,453.49	282.02	16.791	
18,455.45	7,870.00	7,841.00	7,841.00	164.45	135.87	-90.00	-5,618.12	5,753.96	4,767.89	4,485.77	282.12	16.900	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.09	-4,824.14	4,980.53	6,934.00				
100.00	100.00	52.00	52.00	0.13	0.40	134.09	-4,824.14	4,980.53	6,933.83	6,933.30	0.53	N/A	
200.00	200.00	152.00	152.00	0.49	1.68	134.09	-4,824.14	4,980.53	6,933.83	6,931.66	2.17	3,197.648	
300.00	300.00	252.00	252.00	0.85	3.42	134.09	-4,824.14	4,980.53	6,933.83	6,929.56	4.27	1,623.005	
400.00	400.00	352.00	352.00	1.21	5.17	134.09	-4,824.14	4,980.53	6,933.83	6,927.45	6.38	1,087.486	
500.00	500.00	452.00	452.00	1.57	6.91	134.09	-4,824.14	4,980.53	6,933.83	6,925.35	8.48	817.686	
600.00	600.00	552.00	552.00	1.93	8.66	134.09	-4,824.14	4,980.53	6,933.83	6,923.25	10.58	655.147	
700.00	700.00	652.00	652.00	2.29	10.40	134.09	-4,824.14	4,980.53	6,933.83	6,921.14	12.69	546.512	
800.00	800.00	752.00	752.00	2.64	12.15	134.09	-4,824.14	4,980.53	6,933.83	6,919.04	14.79	468.780	
900.00	900.00	852.00	852.00	3.00	13.89	134.09	-4,824.14	4,980.53	6,933.83	6,916.94	16.90	410.407	
1,000.00	1,000.00	952.00	952.00	3.36	15.64	134.09	-4,824.14	4,980.53	6,933.83	6,914.83	19.00	364.961	
1,100.00	1,100.00	1,052.00	1,052.00	3.72	17.38	134.09	-4,824.14	4,980.53	6,933.83	6,912.73	21.10	328.577	
1,200.00	1,200.00	1,152.00	1,152.00	4.08	19.13	134.09	-4,824.14	4,980.53	6,933.83	6,910.62	23.21	298.789	
1,300.00	1,300.00	1,252.00	1,252.00	4.44	20.87	134.09	-4,824.14	4,980.53	6,933.83	6,908.52	25.31	273.954	
1,400.00	1,399.98	1,351.98	1,351.98	4.79	22.62	91.16	-4,824.14	4,980.53	6,933.87	6,906.45	27.41	252.958	
1,500.00	1,499.84	1,451.84	1,451.84	5.15	24.36	91.20	-4,824.14	4,980.53	6,933.97	6,904.46	29.51	234.983	
1,600.00	1,599.45	1,551.45	1,551.45	5.51	26.10	91.27	-4,824.14	4,980.53	6,934.16	6,902.56	31.60	219.404	
1,700.00	1,698.70	1,650.70	1,650.70	5.87	27.83	91.36	-4,824.14	4,980.53	6,934.44	6,900.74	33.70	205.765	
1,800.00	1,797.47	1,749.47	1,749.47	6.24	29.56	91.48	-4,824.14	4,980.53	6,934.83	6,899.04	35.80	193.716	
1,900.00	1,895.62	1,847.62	1,847.62	6.63	31.27	91.62	-4,824.14	4,980.53	6,935.36	6,897.46	37.90	182.982	
2,000.00	1,993.06	1,945.06	1,945.06	7.04	32.97	91.79	-4,824.14	4,980.53	6,936.05	6,896.04	40.01	173.347	
2,100.00	2,089.64	2,041.64	2,041.64	7.48	34.66	91.98	-4,824.14	4,980.53	6,936.93	6,894.80	42.13	164.641	
2,200.00	2,185.27	2,137.27	2,137.27	7.94	36.32	92.19	-4,824.14	4,980.53	6,938.04	6,893.77	44.27	156.725	
2,300.00	2,279.82	2,231.82	2,231.82	8.45	37.98	92.41	-4,824.14	4,980.53	6,939.43	6,893.01	46.42	149.488	
2,400.00	2,373.17	2,325.17	2,325.17	8.99	39.60	92.66	-4,824.14	4,980.53	6,941.13	6,892.53	48.59	142.842	
2,500.00	2,465.21	2,417.21	2,417.21	9.58	41.21	92.91	-4,824.14	4,980.53	6,943.19	6,892.40	50.79	136.712	
2,574.08	2,532.50	2,484.50	2,484.50	10.04	42.39	93.11	-4,824.14	4,980.53	6,944.98	6,892.55	52.43	132.470	
2,600.00	2,555.89	2,507.89	2,507.89	10.21	42.79	93.19	-4,824.14	4,980.53	6,945.66	6,892.66	53.00	131.042	
2,700.00	2,646.16	2,601.84	2,598.16	10.88	44.43	93.51	-4,824.14	4,980.53	6,948.44	6,893.13	55.31	125.627	
2,800.00	2,736.44	2,688.44	2,688.44	11.57	45.94	93.83	-4,824.14	4,980.53	6,951.49	6,893.98	57.51	120.876	
2,900.00	2,826.71	2,778.71	2,778.71	12.27	47.52	94.15	-4,824.14	4,980.53	6,954.81	6,895.02	59.79	116.321	
3,000.00	2,916.98	2,868.98	2,868.98	13.00	49.10	94.47	-4,824.14	4,980.53	6,958.39	6,896.30	62.09	112.078	
3,100.00	3,007.25	2,959.25	2,959.25	13.73	50.67	94.79	-4,824.14	4,980.53	6,962.23	6,897.84	64.39	108.123	
3,200.00	3,097.52	3,049.52	3,049.52	14.48	52.25	95.11	-4,824.14	4,980.53	6,966.34	6,899.63	66.71	104.429	
3,300.00	3,187.80	3,139.80	3,139.80	15.23	53.82	95.42	-4,824.14	4,980.53	6,970.71	6,901.67	69.03	100.975	
3,400.00	3,278.07	3,230.07	3,230.07	15.99	55.40	95.74	-4,824.14	4,980.53	6,975.34	6,903.97	71.37	97.741	
3,500.00	3,368.34	3,320.34	3,320.34	16.76	56.97	96.06	-4,824.14	4,980.53	6,980.23	6,906.53	73.70	94.707	
3,600.00	3,458.61	3,410.61	3,410.61	17.54	58.55	96.38	-4,824.14	4,980.53	6,985.39	6,909.34	76.05	91.858	
3,700.00	3,548.89	3,500.89	3,500.89	18.32	60.12	96.69	-4,824.14	4,980.53	6,990.81	6,912.41	78.39	89.178	
3,800.00	3,639.16	3,608.84	3,591.16	19.10	62.01	97.01	-4,824.14	4,980.53	6,996.48	6,915.43	81.05	86.323	
3,900.00	3,729.43	3,681.43	3,681.43	19.89	63.28	97.33	-4,824.14	4,980.53	7,002.42	6,919.33	83.09	84.271	
4,000.00	3,819.70	3,771.70	3,771.70	20.69	64.85	97.64	-4,824.14	4,980.53	7,008.62	6,923.17	85.45	82.022	
4,100.00	3,909.98	3,861.98	3,861.98	21.48	66.43	97.96	-4,824.14	4,980.53	7,015.07	6,927.27	87.80	79.894	
4,200.00	4,000.25	3,952.25	3,952.25	22.28	68.00	98.27	-4,824.14	4,980.53	7,021.78	6,931.62	90.16	77.879	
4,300.00	4,090.52	4,042.52	4,042.52	23.08	69.58	98.59	-4,824.14	4,980.53	7,028.75	6,936.23	92.52	75.969	
4,400.00	4,180.79	4,132.79	4,132.79	23.88	71.15	98.90	-4,824.14	4,980.53	7,035.98	6,941.10	94.88	74.157	
4,500.00	4,271.06	4,223.06	4,223.06	24.69	72.73	99.21	-4,824.14	4,980.53	7,043.46	6,946.22	97.24	72.434	
4,600.00	4,361.34	4,313.34	4,313.34	25.49	74.30	99.53	-4,824.14	4,980.53	7,051.19	6,951.59	99.60	70.796	
4,700.00	4,451.61	4,403.61	4,403.61	26.30	75.88	99.84	-4,824.14	4,980.53	7,059.18	6,957.22	101.96	69.236	
4,800.00	4,541.88	4,506.12	4,493.88	27.11	77.67	100.15	-4,824.14	4,980.53	7,067.42	6,962.89	104.53	67.610	
4,900.00	4,632.15	4,584.15	4,584.15	27.92	79.03	100.46	-4,824.14	4,980.53	7,075.92	6,969.24	106.68	66.330	
5,000.00	4,722.43	4,674.43	4,674.43	28.74	80.61	100.77	-4,824.14	4,980.53	7,084.66	6,975.63	109.04	64.976	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,764.70	4,764.70	29.55	82.18	101.08	-4,824.14	4,980.53	7,093.66	6,982.26	111.39	63.681	
5,200.00	4,902.97	4,854.97	4,854.97	30.37	83.76	101.39	-4,824.14	4,980.53	7,102.90	6,989.15	113.75	62.443	
5,300.00	4,993.24	4,945.24	4,945.24	31.18	85.33	101.70	-4,824.14	4,980.53	7,112.39	6,996.29	116.11	61.258	
5,400.00	5,083.51	5,035.51	5,035.51	32.00	86.91	102.00	-4,824.14	4,980.53	7,122.13	7,003.67	118.46	60.123	
5,500.00	5,173.79	5,125.79	5,125.79	32.82	88.48	102.31	-4,824.14	4,980.53	7,132.12	7,011.31	120.81	59.035	
5,600.00	5,264.06	5,216.06	5,216.06	33.63	90.06	102.62	-4,824.14	4,980.53	7,142.35	7,019.19	123.16	57.990	
5,700.00	5,354.33	5,306.33	5,306.33	34.45	91.64	102.92	-4,824.14	4,980.53	7,152.83	7,027.31	125.51	56.988	
5,800.00	5,444.60	5,403.40	5,396.60	35.27	93.33	103.23	-4,824.14	4,980.53	7,163.54	7,035.56	127.98	55.973	
5,900.00	5,534.88	5,486.88	5,486.88	36.09	94.79	103.53	-4,824.14	4,980.53	7,174.50	7,044.29	130.21	55.100	
6,000.00	5,625.15	5,577.15	5,577.15	36.91	96.36	103.83	-4,824.14	4,980.53	7,185.71	7,053.15	132.56	54.209	
6,100.00	5,715.42	5,667.42	5,667.42	37.74	97.94	104.13	-4,824.14	4,980.53	7,197.15	7,062.25	134.90	53.352	
6,200.00	5,805.69	5,757.69	5,757.69	38.56	99.51	104.44	-4,824.14	4,980.53	7,208.83	7,071.59	137.24	52.527	
6,300.00	5,895.96	5,847.96	5,847.96	39.38	101.09	104.74	-4,824.14	4,980.53	7,220.74	7,081.16	139.58	51.732	
6,400.00	5,986.24	5,938.24	5,938.24	40.20	102.66	105.04	-4,824.14	4,980.53	7,232.90	7,090.98	141.92	50.966	
6,500.00	6,076.51	6,028.51	6,028.51	41.03	104.24	105.34	-4,824.14	4,980.53	7,245.28	7,101.03	144.25	50.227	
6,600.00	6,166.78	6,118.78	6,118.78	41.85	105.82	105.63	-4,824.14	4,980.53	7,257.91	7,111.32	146.58	49.513	
6,700.00	6,257.05	6,209.05	6,209.05	42.67	107.39	105.93	-4,824.14	4,980.53	7,270.76	7,121.85	148.92	48.825	
6,800.00	6,347.33	6,300.67	6,299.33	43.50	108.99	106.23	-4,824.14	4,980.53	7,283.85	7,132.58	151.27	48.152	
6,900.00	6,437.60	6,389.60	6,389.60	44.32	110.54	106.52	-4,824.14	4,980.53	7,297.16	7,143.59	153.57	47.517	
7,000.00	6,527.87	6,479.87	6,479.87	45.15	112.12	106.82	-4,824.14	4,980.53	7,310.71	7,154.81	155.89	46.895	
7,100.00	6,618.14	6,570.14	6,570.14	45.98	113.69	107.11	-4,824.14	4,980.53	7,324.48	7,166.27	158.22	46.294	
7,200.00	6,708.41	6,660.41	6,660.41	46.80	115.27	107.40	-4,824.14	4,980.53	7,338.48	7,177.95	160.54	45.712	
7,300.00	6,798.69	6,750.69	6,750.69	47.63	116.84	107.70	-4,824.14	4,980.53	7,352.71	7,189.85	162.85	45.149	
7,400.00	6,888.96	6,840.96	6,840.96	48.45	118.42	107.99	-4,824.14	4,980.53	7,367.15	7,201.99	165.17	44.604	
7,500.00	6,979.23	6,931.23	6,931.23	49.28	120.00	108.28	-4,824.14	4,980.53	7,381.83	7,214.35	167.48	44.076	
7,600.00	7,069.50	7,021.50	7,021.50	50.11	121.57	108.57	-4,824.14	4,980.53	7,396.72	7,226.93	169.79	43.565	
7,692.09	7,152.63	7,104.63	7,104.63	50.87	123.02	108.83	-4,824.14	4,980.53	7,410.63	7,238.71	171.91	43.107	
7,700.00	7,159.79	7,111.79	7,111.79	50.93	123.15	107.69	-4,824.14	4,980.53	7,411.78	7,239.69	172.09	43.068	
7,750.00	7,205.70	7,157.70	7,157.70	51.32	123.95	98.98	-4,824.14	4,980.53	7,416.84	7,243.59	173.25	42.811	
7,800.00	7,252.52	7,204.52	7,204.52	51.66	124.77	87.41	-4,824.14	4,980.53	7,418.00	7,243.61	174.39	42.537	
7,850.00	7,299.89	7,251.89	7,251.89	51.96	125.59	73.17	-4,824.14	4,980.53	7,415.25	7,239.74	175.51	42.249	
7,900.00	7,347.44	7,300.56	7,299.44	52.20	126.44	57.63	-4,824.14	4,980.53	7,408.58	7,231.96	176.62	41.946	
7,950.00	7,394.83	7,346.83	7,346.83	52.39	127.25	42.92	-4,824.14	4,980.53	7,398.05	7,220.39	177.66	41.643	
8,000.00	7,441.68	7,406.32	7,393.68	52.53	128.29	30.47	-4,824.14	4,980.53	7,383.72	7,204.84	178.88	41.277	
8,050.00	7,487.65	7,439.65	7,439.65	52.62	128.87	20.48	-4,824.14	4,980.53	7,365.69	7,186.08	179.62	41.008	
8,100.00	7,532.37	7,484.37	7,484.37	52.67	129.65	12.50	-4,824.14	4,980.53	7,344.10	7,163.59	180.51	40.684	
8,150.00	7,575.52	7,527.52	7,527.52	52.67	130.40	5.92	-4,824.14	4,980.53	7,319.10	7,137.75	181.35	40.359	
8,200.00	7,616.76	7,568.76	7,568.76	52.63	131.12	0.23	-4,824.14	4,980.53	7,290.88	7,108.76	182.12	40.033	
8,250.00	7,655.77	7,607.77	7,607.77	52.55	131.80	-4.98	-4,824.14	4,980.53	7,259.66	7,076.83	182.82	39.708	
8,300.00	7,692.27	7,644.27	7,644.27	52.44	132.44	-10.05	-4,824.14	4,980.53	7,225.66	7,042.21	183.45	39.387	
8,350.00	7,725.97	7,677.97	7,677.97	52.29	133.03	-15.26	-4,824.14	4,980.53	7,189.16	7,005.16	184.00	39.071	
8,400.00	7,756.62	7,708.62	7,708.62	52.12	133.56	-20.90	-4,824.14	4,980.53	7,150.44	6,965.97	184.47	38.762	
8,450.00	7,783.98	7,735.98	7,735.98	51.92	134.04	-27.22	-4,824.14	4,980.53	7,109.80	6,924.94	184.86	38.461	
8,500.00	7,807.85	7,759.85	7,759.85	51.70	134.46	-34.51	-4,824.14	4,980.53	7,067.55	6,882.39	185.16	38.170	
8,550.00	7,828.05	7,780.05	7,780.05	51.45	134.81	-42.97	-4,824.14	4,980.53	7,024.03	6,838.65	185.38	37.890	
8,600.00	7,844.41	7,803.59	7,796.41	51.20	135.22	-52.66	-4,824.14	4,980.53	6,979.59	6,793.95	185.64	37.598	
8,650.00	7,856.82	7,808.82	7,808.82	50.93	135.31	-63.31	-4,824.14	4,980.53	6,934.56	6,749.01	185.56	37.371	
8,700.00	7,865.18	7,817.18	7,817.18	50.65	135.46	-74.32	-4,824.14	4,980.53	6,889.32	6,703.80	185.52	37.135	
8,750.00	7,869.43	7,821.43	7,821.43	50.36	135.53	-84.88	-4,824.14	4,980.53	6,844.22	6,658.82	185.40	36.916	
8,776.25	7,870.00	7,822.00	7,822.00	50.21	135.54	-90.00	-4,824.14	4,980.53	6,820.71	6,635.41	185.30	36.808	
8,800.00	7,870.00	7,822.00	7,822.00	50.08	135.54	-90.00	-4,824.14	4,980.53	6,799.53	6,614.32	185.21	36.713	
8,900.00	7,870.00	7,822.00	7,822.00	49.53	135.54	-90.00	-4,824.14	4,980.53	6,710.54	6,525.74	184.80	36.313	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,822.00	7,822.00	49.01	135.54	-90.00	-4,824.14	4,980.53	6,621.86	6,437.47	184.39	35.912	
9,100.00	7,870.00	7,822.00	7,822.00	48.52	135.54	-90.00	-4,824.14	4,980.53	6,533.51	6,349.53	183.98	35.512	
9,200.00	7,870.00	7,822.00	7,822.00	48.06	135.54	-90.00	-4,824.14	4,980.53	6,445.50	6,261.93	183.57	35.112	
9,300.00	7,870.00	7,822.00	7,822.00	47.63	135.54	-90.00	-4,824.14	4,980.53	6,357.85	6,174.68	183.16	34.711	
9,400.00	7,870.00	7,822.00	7,822.00	47.22	135.54	-90.00	-4,824.14	4,980.53	6,270.56	6,087.80	182.76	34.310	
9,500.00	7,870.00	7,822.00	7,822.00	46.83	135.54	-90.00	-4,824.14	4,980.53	6,183.66	6,001.30	182.36	33.909	
9,600.00	7,870.00	7,822.00	7,822.00	46.48	135.54	-90.00	-4,824.14	4,980.53	6,097.16	5,915.20	181.96	33.508	
9,700.00	7,870.00	7,822.00	7,822.00	46.14	135.54	-90.00	-4,824.14	4,980.53	6,011.08	5,829.51	181.57	33.106	
9,800.00	7,870.00	7,822.00	7,822.00	45.83	135.54	-90.00	-4,824.14	4,980.53	5,925.44	5,744.24	181.19	32.703	
9,900.00	7,870.00	7,822.00	7,822.00	45.54	135.54	-90.00	-4,824.14	4,980.53	5,840.25	5,659.43	180.82	32.299	
10,000.00	7,870.00	7,822.00	7,822.00	45.27	135.54	-90.00	-4,824.14	4,980.53	5,755.54	5,575.08	180.46	31.894	
10,100.00	7,870.00	7,822.00	7,822.00	45.03	135.54	-90.00	-4,824.14	4,980.53	5,671.33	5,491.21	180.11	31.487	
10,200.00	7,870.00	7,822.00	7,822.00	44.82	135.54	-90.00	-4,824.14	4,980.53	5,587.63	5,407.85	179.78	31.080	
10,300.00	7,870.00	7,822.00	7,822.00	44.66	135.54	-90.00	-4,824.14	4,980.53	5,504.49	5,325.01	179.48	30.670	
10,400.00	7,870.00	7,822.00	7,822.00	44.56	135.54	-90.00	-4,824.14	4,980.53	5,421.91	5,242.72	179.19	30.258	
10,500.00	7,870.00	7,822.00	7,822.00	44.58	135.54	-90.00	-4,824.14	4,980.53	5,339.93	5,161.00	178.93	29.844	
10,600.00	7,870.00	7,822.00	7,822.00	44.82	135.54	-90.00	-4,824.14	4,980.53	5,258.57	5,079.87	178.70	29.427	
10,700.00	7,870.00	7,822.00	7,822.00	45.36	135.54	-90.00	-4,824.14	4,980.53	5,177.86	4,999.36	178.50	29.007	
10,800.00	7,870.00	7,822.00	7,822.00	46.15	135.54	-90.00	-4,824.14	4,980.53	5,097.84	4,919.50	178.34	28.584	
10,900.00	7,870.00	7,822.00	7,822.00	47.09	135.54	-90.00	-4,824.14	4,980.53	5,018.53	4,840.31	178.23	28.158	
11,000.00	7,870.00	7,822.00	7,822.00	48.13	135.54	-90.00	-4,824.14	4,980.53	4,939.98	4,761.82	178.16	27.728	
11,100.00	7,870.00	7,822.00	7,822.00	49.22	135.54	-90.00	-4,824.14	4,980.53	4,862.21	4,684.07	178.14	27.294	
11,200.00	7,870.00	7,822.00	7,822.00	50.37	135.54	-90.00	-4,824.14	4,980.53	4,785.27	4,607.09	178.19	26.856	
11,300.00	7,870.00	7,822.00	7,822.00	51.55	135.54	-90.00	-4,824.14	4,980.53	4,709.20	4,530.91	178.29	26.413	
11,400.00	7,870.00	7,822.00	7,822.00	52.76	135.54	-90.00	-4,824.14	4,980.53	4,634.03	4,455.57	178.47	25.966	
11,500.00	7,870.00	7,822.00	7,822.00	54.00	135.54	-90.00	-4,824.14	4,980.53	4,559.82	4,381.11	178.71	25.515	
11,600.00	7,870.00	7,822.00	7,822.00	55.27	135.54	-90.00	-4,824.14	4,980.53	4,486.61	4,307.57	179.04	25.059	
11,700.00	7,870.00	7,822.00	7,822.00	56.56	135.54	-90.00	-4,824.14	4,980.53	4,414.46	4,235.00	179.46	24.599	
11,800.00	7,870.00	7,822.00	7,822.00	57.88	135.54	-90.00	-4,824.14	4,980.53	4,343.40	4,163.44	179.96	24.135	
11,900.00	7,870.00	7,822.00	7,822.00	59.21	135.54	-90.00	-4,824.14	4,980.53	4,273.51	4,092.94	180.56	23.668	
12,000.00	7,870.00	7,822.00	7,822.00	60.57	135.54	-90.00	-4,824.14	4,980.53	4,204.83	4,023.56	181.26	23.197	
12,100.00	7,870.00	7,822.00	7,822.00	61.94	135.54	-90.00	-4,824.14	4,980.53	4,137.43	3,955.36	182.07	22.725	
12,200.00	7,870.00	7,822.00	7,822.00	63.33	135.54	-90.00	-4,824.14	4,980.53	4,071.36	3,888.38	182.98	22.250	
12,300.00	7,870.00	7,822.00	7,822.00	64.74	135.54	-90.00	-4,824.14	4,980.53	4,006.71	3,822.71	184.00	21.776	
12,400.00	7,870.00	7,822.00	7,822.00	66.16	135.54	-90.00	-4,824.14	4,980.53	3,943.53	3,758.40	185.13	21.301	
12,500.00	7,870.00	7,822.00	7,822.00	67.59	135.54	-90.00	-4,824.14	4,980.53	3,881.90	3,695.52	186.38	20.828	
12,600.00	7,870.00	7,822.00	7,822.00	69.04	135.54	-90.00	-4,824.14	4,980.53	3,821.89	3,634.16	187.74	20.358	
12,700.00	7,870.00	7,822.00	7,822.00	70.51	135.54	-90.00	-4,824.14	4,980.53	3,763.59	3,574.38	189.21	19.891	
12,800.00	7,870.00	7,822.00	7,822.00	71.98	135.54	-90.00	-4,824.14	4,980.53	3,707.06	3,516.28	190.79	19.430	
12,900.00	7,870.00	7,822.00	7,822.00	73.47	135.54	-90.00	-4,824.14	4,980.53	3,652.40	3,459.92	192.48	18.976	
13,000.00	7,870.00	7,822.00	7,822.00	74.96	135.54	-90.00	-4,824.14	4,980.53	3,599.69	3,405.41	194.27	18.529	
13,100.00	7,870.00	7,822.00	7,822.00	76.47	135.54	-90.00	-4,824.14	4,980.53	3,549.01	3,352.84	196.17	18.091	
13,200.00	7,870.00	7,822.00	7,822.00	77.99	135.54	-90.00	-4,824.14	4,980.53	3,500.45	3,302.29	198.16	17.664	
13,300.00	7,870.00	7,822.00	7,822.00	79.51	135.54	-90.00	-4,824.14	4,980.53	3,454.11	3,253.86	200.25	17.249	
13,400.00	7,870.00	7,822.00	7,822.00	81.05	135.54	-90.00	-4,824.14	4,980.53	3,410.08	3,207.65	202.42	16.846	
13,500.00	7,870.00	7,822.00	7,822.00	82.59	135.54	-90.00	-4,824.14	4,980.53	3,368.43	3,163.76	204.67	16.458	
13,600.00	7,870.00	7,822.00	7,822.00	84.14	135.54	-90.00	-4,824.14	4,980.53	3,329.27	3,122.28	206.99	16.084	
13,700.00	7,870.00	7,822.00	7,822.00	85.70	135.54	-90.00	-4,824.14	4,980.53	3,292.68	3,083.32	209.37	15.727	
13,800.00	7,870.00	7,822.00	7,822.00	87.26	135.54	-90.00	-4,824.14	4,980.53	3,258.76	3,046.96	211.80	15.386	
13,900.00	7,870.00	7,822.00	7,822.00	88.83	135.54	-90.00	-4,824.14	4,980.53	3,227.57	3,013.30	214.27	15.063	
14,000.00	7,870.00	7,822.00	7,822.00	90.41	135.54	-90.00	-4,824.14	4,980.53	3,199.21	2,982.44	216.77	14.759	
14,100.00	7,870.00	7,822.00	7,822.00	92.00	135.54	-90.00	-4,824.14	4,980.53	3,173.74	2,954.46	219.28	14.473	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	7,822.00	7,822.00	93.59	135.54	-90.00	-4,824.14	4,980.53	3,151.25	2,929.44	221.81	14.207	
14,300.00	7,870.00	7,822.00	7,822.00	95.18	135.54	-90.00	-4,824.14	4,980.53	3,131.78	2,907.45	224.33	13.960	
14,400.00	7,870.00	7,822.00	7,822.00	96.79	135.54	-90.00	-4,824.14	4,980.53	3,115.41	2,888.58	226.84	13.734	
14,500.00	7,870.00	7,822.00	7,822.00	98.39	135.54	-90.00	-4,824.14	4,980.53	3,102.18	2,872.87	229.31	13.528	
14,600.00	7,870.00	7,822.00	7,822.00	100.00	135.54	-90.00	-4,824.14	4,980.53	3,092.12	2,860.38	231.75	13.343	
14,700.00	7,870.00	7,822.00	7,822.00	101.62	135.54	-90.00	-4,824.14	4,980.53	3,085.28	2,851.15	234.13	13.178	
14,800.00	7,870.00	7,822.00	7,822.00	103.24	135.54	-90.00	-4,824.14	4,980.53	3,081.66	2,845.22	236.45	13.033	
14,861.41	7,870.00	7,822.00	7,822.00	104.24	135.54	-90.00	-4,824.14	4,980.53	3,081.05	2,843.21	237.84	12.954	CC
14,900.00	7,870.00	7,822.00	7,822.00	104.87	135.54	-90.00	-4,824.14	4,980.53	3,081.29	2,842.60	238.70	12.909	ES
15,000.00	7,870.00	7,822.00	7,822.00	106.50	135.54	-90.00	-4,824.14	4,980.53	3,084.17	2,843.30	240.86	12.805	
15,100.00	7,870.00	7,822.00	7,822.00	108.13	135.54	-90.00	-4,824.14	4,980.53	3,090.28	2,847.34	242.94	12.720	
15,200.00	7,870.00	7,822.00	7,822.00	109.77	135.54	-90.00	-4,824.14	4,980.53	3,099.60	2,854.68	244.92	12.656	
15,300.00	7,870.00	7,822.00	7,822.00	111.41	135.54	-90.00	-4,824.14	4,980.53	3,112.11	2,865.31	246.80	12.610	
15,400.00	7,870.00	7,822.00	7,822.00	113.05	135.54	-90.00	-4,824.14	4,980.53	3,127.77	2,879.20	248.57	12.583	
15,500.00	7,870.00	7,822.00	7,822.00	114.70	135.54	-90.00	-4,824.14	4,980.53	3,146.53	2,896.30	250.23	12.574	SF
15,600.00	7,870.00	7,822.00	7,822.00	116.35	135.54	-90.00	-4,824.14	4,980.53	3,168.34	2,916.56	251.78	12.584	
15,700.00	7,870.00	7,822.00	7,822.00	118.00	135.54	-90.00	-4,824.14	4,980.53	3,193.14	2,939.91	253.22	12.610	
15,800.00	7,870.00	7,822.00	7,822.00	119.66	135.54	-90.00	-4,824.14	4,980.53	3,220.84	2,966.30	254.54	12.653	
15,900.00	7,870.00	7,822.00	7,822.00	121.32	135.54	-90.00	-4,824.14	4,980.53	3,251.39	2,995.63	255.76	12.713	
16,000.00	7,870.00	7,822.00	7,822.00	122.98	135.54	-90.00	-4,824.14	4,980.53	3,284.70	3,027.84	256.86	12.788	
16,100.00	7,870.00	7,822.00	7,822.00	124.65	135.54	-90.00	-4,824.14	4,980.53	3,320.69	3,062.83	257.86	12.878	
16,200.00	7,870.00	7,822.00	7,822.00	126.32	135.54	-90.00	-4,824.14	4,980.53	3,359.27	3,100.52	258.75	12.983	
16,300.00	7,870.00	7,822.00	7,822.00	127.99	135.54	-90.00	-4,824.14	4,980.53	3,400.36	3,140.81	259.55	13.101	
16,400.00	7,870.00	7,822.00	7,822.00	129.66	135.54	-90.00	-4,824.14	4,980.53	3,443.85	3,183.61	260.25	13.233	
16,500.00	7,870.00	7,822.00	7,822.00	131.33	135.54	-90.00	-4,824.14	4,980.53	3,489.68	3,228.82	260.86	13.378	
16,600.00	7,870.00	7,822.00	7,822.00	133.01	135.54	-90.00	-4,824.14	4,980.53	3,537.74	3,276.35	261.38	13.535	
16,700.00	7,870.00	7,822.00	7,822.00	134.69	135.54	-90.00	-4,824.14	4,980.53	3,587.94	3,326.11	261.83	13.703	
16,800.00	7,870.00	7,822.00	7,822.00	136.37	135.54	-90.00	-4,824.14	4,980.53	3,640.19	3,377.99	262.20	13.883	
16,900.00	7,870.00	7,822.00	7,822.00	138.06	135.54	-90.00	-4,824.14	4,980.53	3,694.42	3,431.92	262.50	14.074	
17,000.00	7,870.00	7,822.00	7,822.00	139.74	135.54	-90.00	-4,824.14	4,980.53	3,750.53	3,487.79	262.74	14.275	
17,100.00	7,870.00	7,822.00	7,822.00	141.43	135.54	-90.00	-4,824.14	4,980.53	3,808.43	3,545.52	262.92	14.485	
17,200.00	7,870.00	7,822.00	7,822.00	143.12	135.54	-90.00	-4,824.14	4,980.53	3,868.06	3,605.02	263.04	14.705	
17,300.00	7,870.00	7,822.00	7,822.00	144.81	135.54	-90.00	-4,824.14	4,980.53	3,929.32	3,666.21	263.11	14.934	
17,400.00	7,870.00	7,822.00	7,822.00	146.50	135.54	-90.00	-4,824.14	4,980.53	3,992.16	3,729.01	263.14	15.171	
17,500.00	7,870.00	7,822.00	7,822.00	148.19	135.54	-90.00	-4,824.14	4,980.53	4,056.48	3,793.35	263.13	15.416	
17,600.00	7,870.00	7,822.00	7,822.00	149.89	135.54	-90.00	-4,824.14	4,980.53	4,122.23	3,859.15	263.08	15.669	
17,700.00	7,870.00	7,822.00	7,822.00	151.59	135.54	-90.00	-4,824.14	4,980.53	4,189.33	3,926.34	262.99	15.929	
17,800.00	7,870.00	7,822.00	7,822.00	153.29	135.54	-90.00	-4,824.14	4,980.53	4,257.72	3,994.84	262.88	16.197	
17,900.00	7,870.00	7,822.00	7,822.00	154.99	135.54	-90.00	-4,824.14	4,980.53	4,327.34	4,064.61	262.73	16.470	
18,000.00	7,870.00	7,822.00	7,822.00	156.69	135.54	-90.00	-4,824.14	4,980.53	4,398.14	4,135.57	262.57	16.751	
18,100.00	7,870.00	7,822.00	7,822.00	158.39	135.54	-90.00	-4,824.14	4,980.53	4,470.05	4,207.67	262.38	17.037	
18,200.00	7,870.00	7,822.00	7,822.00	160.09	135.54	-90.00	-4,824.14	4,980.53	4,543.02	4,280.85	262.17	17.329	
18,300.00	7,870.00	7,822.00	7,822.00	161.80	135.54	-90.00	-4,824.14	4,980.53	4,617.01	4,355.06	261.94	17.626	
18,400.00	7,870.00	7,822.00	7,822.00	163.51	135.54	-90.00	-4,824.14	4,980.53	4,691.96	4,430.25	261.71	17.928	
18,455.45	7,870.00	7,822.00	7,822.00	164.45	135.54	-90.00	-4,824.14	4,980.53	4,733.92	4,472.35	261.57	18.098	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	142.30	-4,088.57	3,160.07	5,167.49				
100.00	100.00	77.00	77.00	0.13	0.60	142.30	-4,088.57	3,160.07	5,167.44	5,166.71	0.73	7,054.868	
200.00	200.00	177.00	177.00	0.49	2.12	142.30	-4,088.57	3,160.07	5,167.44	5,164.83	2.61	1,977.231	
300.00	300.00	277.00	277.00	0.85	3.87	142.30	-4,088.57	3,160.07	5,167.44	5,162.73	4.72	1,095.429	
400.00	400.00	377.00	377.00	1.21	5.61	142.30	-4,088.57	3,160.07	5,167.44	5,160.62	6.82	757.570	
500.00	500.00	477.00	477.00	1.57	7.36	142.30	-4,088.57	3,160.07	5,167.44	5,158.52	8.92	578.993	
600.00	600.00	577.00	577.00	1.93	9.10	142.30	-4,088.57	3,160.07	5,167.44	5,156.41	11.03	468.546	
700.00	700.00	677.00	677.00	2.29	10.85	142.30	-4,088.57	3,160.07	5,167.44	5,154.31	13.13	393.486	
800.00	800.00	777.00	777.00	2.64	12.59	142.30	-4,088.57	3,160.07	5,167.44	5,152.21	15.24	339.154	
900.00	900.00	877.00	877.00	3.00	14.34	142.30	-4,088.57	3,160.07	5,167.44	5,150.10	17.34	298.006	
1,000.00	1,000.00	977.00	977.00	3.36	16.08	142.30	-4,088.57	3,160.07	5,167.44	5,148.00	19.44	265.762	
1,100.00	1,100.00	1,077.00	1,077.00	3.72	17.83	142.30	-4,088.57	3,160.07	5,167.44	5,145.89	21.55	239.814	
1,200.00	1,200.00	1,177.00	1,177.00	4.08	19.57	142.30	-4,088.57	3,160.07	5,167.44	5,143.79	23.65	218.483	
1,300.00	1,300.00	1,277.00	1,277.00	4.44	21.32	142.30	-4,088.57	3,160.07	5,167.44	5,141.69	25.76	200.636	
1,400.00	1,399.98	1,376.98	1,376.98	4.79	23.06	99.37	-4,088.57	3,160.07	5,167.73	5,139.87	27.86	185.514	
1,500.00	1,499.84	1,476.84	1,476.84	5.15	24.81	99.41	-4,088.57	3,160.07	5,168.58	5,138.63	29.95	172.551	
1,600.00	1,599.45	1,576.45	1,576.45	5.51	26.55	99.48	-4,088.57	3,160.07	5,170.02	5,137.97	32.05	161.309	
1,700.00	1,698.70	1,675.70	1,675.70	5.87	28.28	99.57	-4,088.57	3,160.07	5,172.05	5,137.90	34.15	151.464	
1,800.00	1,797.47	1,774.47	1,774.47	6.24	30.00	99.69	-4,088.57	3,160.07	5,174.70	5,138.45	36.25	142.767	
1,900.00	1,895.62	1,872.62	1,872.62	6.63	31.71	99.82	-4,088.57	3,160.07	5,177.99	5,139.64	38.35	135.025	
2,000.00	1,993.06	1,970.06	1,970.06	7.04	33.42	99.99	-4,088.57	3,160.07	5,181.96	5,141.50	40.46	128.081	
2,100.00	2,089.64	2,066.64	2,066.64	7.48	35.10	100.17	-4,088.57	3,160.07	5,186.64	5,144.06	42.58	121.815	
2,200.00	2,185.27	2,162.27	2,162.27	7.94	36.77	100.36	-4,088.57	3,160.07	5,192.08	5,147.37	44.71	116.126	
2,300.00	2,279.82	2,256.82	2,256.82	8.45	38.42	100.57	-4,088.57	3,160.07	5,198.33	5,151.47	46.86	110.936	
2,400.00	2,373.17	2,350.17	2,350.17	8.99	40.05	100.80	-4,088.57	3,160.07	5,205.43	5,156.40	49.02	106.179	
2,500.00	2,465.21	2,442.21	2,442.21	9.58	41.66	101.03	-4,088.57	3,160.07	5,213.44	5,162.23	51.21	101.805	
2,574.08	2,532.50	2,509.50	2,509.50	10.04	42.83	101.20	-4,088.57	3,160.07	5,220.00	5,167.15	52.84	98.784	
2,600.00	2,555.89	2,532.89	2,532.89	10.21	43.24	101.31	-4,088.57	3,160.07	5,222.40	5,168.98	53.42	97.769	
2,700.00	2,646.16	2,623.16	2,623.16	10.88	44.81	101.73	-4,088.57	3,160.07	5,231.87	5,176.23	55.64	94.024	
2,800.00	2,736.44	2,713.44	2,713.44	11.57	46.39	102.15	-4,088.57	3,160.07	5,241.69	5,183.79	57.89	90.543	
2,900.00	2,826.71	2,803.71	2,803.71	12.27	47.97	102.57	-4,088.57	3,160.07	5,251.83	5,191.68	60.15	87.306	
3,000.00	2,916.98	2,906.02	2,893.98	13.00	49.75	102.98	-4,088.57	3,160.07	5,262.31	5,199.67	62.64	84.009	
3,100.00	3,007.25	2,984.25	2,984.25	13.73	51.12	103.39	-4,088.57	3,160.07	5,273.12	5,208.41	64.71	81.483	
3,200.00	3,097.52	3,074.52	3,074.52	14.48	52.69	103.81	-4,088.57	3,160.07	5,284.26	5,217.25	67.01	78.861	
3,300.00	3,187.80	3,164.80	3,164.80	15.23	54.27	104.22	-4,088.57	3,160.07	5,295.72	5,226.42	69.31	76.410	
3,400.00	3,278.07	3,255.07	3,255.07	15.99	55.84	104.63	-4,088.57	3,160.07	5,307.51	5,235.90	71.61	74.116	
3,500.00	3,368.34	3,345.34	3,345.34	16.76	57.42	105.04	-4,088.57	3,160.07	5,319.62	5,245.70	73.92	71.966	
3,600.00	3,458.61	3,435.61	3,435.61	17.54	58.99	105.44	-4,088.57	3,160.07	5,332.05	5,255.82	76.23	69.947	
3,700.00	3,548.89	3,525.89	3,525.89	18.32	60.57	105.85	-4,088.57	3,160.07	5,344.80	5,266.25	78.54	68.050	
3,800.00	3,639.16	3,616.16	3,616.16	19.10	62.15	106.25	-4,088.57	3,160.07	5,357.86	5,277.00	80.86	66.264	
3,900.00	3,729.43	3,706.43	3,706.43	19.89	63.72	106.65	-4,088.57	3,160.07	5,371.23	5,288.06	83.17	64.580	
4,000.00	3,819.70	3,803.30	3,796.70	20.69	65.41	107.05	-4,088.57	3,160.07	5,384.92	5,299.32	85.60	62.907	
4,100.00	3,909.98	3,886.98	3,886.98	21.48	66.87	107.45	-4,088.57	3,160.07	5,398.91	5,311.11	87.80	61.490	
4,200.00	4,000.25	3,977.25	3,977.25	22.28	68.45	107.84	-4,088.57	3,160.07	5,413.21	5,323.09	90.12	60.069	
4,300.00	4,090.52	4,067.52	4,067.52	23.08	70.02	108.24	-4,088.57	3,160.07	5,427.81	5,335.38	92.43	58.724	
4,400.00	4,180.79	4,157.79	4,157.79	23.88	71.60	108.63	-4,088.57	3,160.07	5,442.71	5,347.97	94.74	57.448	
4,500.00	4,271.06	4,248.06	4,248.06	24.69	73.17	109.02	-4,088.57	3,160.07	5,457.92	5,360.86	97.05	56.236	
4,600.00	4,361.34	4,338.34	4,338.34	25.49	74.75	109.41	-4,088.57	3,160.07	5,473.41	5,374.05	99.36	55.086	
4,700.00	4,451.61	4,428.61	4,428.61	26.30	76.33	109.80	-4,088.57	3,160.07	5,489.20	5,387.54	101.67	53.991	
4,800.00	4,541.88	4,518.88	4,518.88	27.11	77.90	110.18	-4,088.57	3,160.07	5,505.29	5,401.31	103.97	52.948	
4,900.00	4,632.15	4,609.15	4,609.15	27.92	79.48	110.57	-4,088.57	3,160.07	5,521.66	5,415.38	106.28	51.955	
5,000.00	4,722.43	4,700.57	4,699.43	28.74	81.07	110.95	-4,088.57	3,160.07	5,538.31	5,429.72	108.60	50.998	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,789.70	4,789.70	29.55	82.63	111.33	-4,088.57	3,160.07	5,555.25	5,444.38	110.88	50.104	
5,200.00	4,902.97	4,879.97	4,879.97	30.37	84.20	111.71	-4,088.57	3,160.07	5,572.47	5,459.30	113.17	49.240	
5,300.00	4,993.24	4,970.24	4,970.24	31.18	85.78	112.08	-4,088.57	3,160.07	5,589.97	5,474.51	115.46	48.414	
5,400.00	5,083.51	5,060.51	5,060.51	32.00	87.35	112.46	-4,088.57	3,160.07	5,607.74	5,489.99	117.75	47.623	
5,500.00	5,173.79	5,150.79	5,150.79	32.82	88.93	112.83	-4,088.57	3,160.07	5,625.79	5,505.75	120.04	46.866	
5,600.00	5,264.06	5,241.06	5,241.06	33.63	90.51	113.20	-4,088.57	3,160.07	5,644.11	5,521.79	122.32	46.141	
5,700.00	5,354.33	5,331.33	5,331.33	34.45	92.08	113.57	-4,088.57	3,160.07	5,662.69	5,538.09	124.60	45.446	
5,800.00	5,444.60	5,421.60	5,421.60	35.27	93.66	113.93	-4,088.57	3,160.07	5,681.54	5,554.66	126.88	44.779	
5,900.00	5,534.88	5,511.88	5,511.88	36.09	95.23	114.30	-4,088.57	3,160.07	5,700.65	5,571.50	129.15	44.138	
6,000.00	5,625.15	5,602.15	5,602.15	36.91	96.81	114.66	-4,088.57	3,160.07	5,720.02	5,588.60	131.42	43.523	
6,100.00	5,715.42	5,707.58	5,692.42	37.74	98.65	115.02	-4,088.57	3,160.07	5,739.65	5,605.70	133.96	42.847	
6,200.00	5,805.69	5,782.69	5,782.69	38.56	99.96	115.37	-4,088.57	3,160.07	5,759.54	5,623.58	135.96	42.363	
6,300.00	5,895.96	5,872.96	5,872.96	39.38	101.53	115.73	-4,088.57	3,160.07	5,779.67	5,641.45	138.22	41.816	
6,400.00	5,986.24	5,963.24	5,963.24	40.20	103.11	116.08	-4,088.57	3,160.07	5,800.06	5,659.58	140.47	41.289	
6,500.00	6,076.51	6,053.51	6,053.51	41.03	104.69	116.43	-4,088.57	3,160.07	5,820.69	5,677.96	142.73	40.782	
6,600.00	6,166.78	6,143.78	6,143.78	41.85	106.26	116.78	-4,088.57	3,160.07	5,841.56	5,696.58	144.98	40.293	
6,700.00	6,257.05	6,234.05	6,234.05	42.67	107.84	117.13	-4,088.57	3,160.07	5,862.68	5,715.45	147.23	39.821	
6,800.00	6,347.33	6,324.33	6,324.33	43.50	109.41	117.47	-4,088.57	3,160.07	5,884.03	5,734.56	149.47	39.366	
6,900.00	6,437.60	6,414.60	6,414.60	44.32	110.99	117.82	-4,088.57	3,160.07	5,905.62	5,753.91	151.71	38.927	
7,000.00	6,527.87	6,504.87	6,504.87	45.15	112.56	118.16	-4,088.57	3,160.07	5,927.45	5,773.50	153.95	38.504	
7,100.00	6,618.14	6,604.86	6,595.14	45.98	114.31	118.49	-4,088.57	3,160.07	5,949.50	5,793.15	156.35	38.053	
7,200.00	6,708.41	6,685.41	6,685.41	46.80	115.71	118.83	-4,088.57	3,160.07	5,971.79	5,813.38	158.41	37.699	
7,300.00	6,798.69	6,775.69	6,775.69	47.63	117.29	119.16	-4,088.57	3,160.07	5,994.30	5,833.66	160.63	37.316	
7,400.00	6,888.96	6,865.96	6,865.96	48.45	118.86	119.50	-4,088.57	3,160.07	6,017.03	5,854.17	162.86	36.947	
7,500.00	6,979.23	6,956.23	6,956.23	49.28	120.44	119.83	-4,088.57	3,160.07	6,039.99	5,874.91	165.08	36.589	
7,600.00	7,069.50	7,046.50	7,046.50	50.11	122.02	120.15	-4,088.57	3,160.07	6,063.16	5,895.87	167.29	36.243	
7,692.09	7,152.63	7,129.63	7,129.63	50.87	123.47	120.45	-4,088.57	3,160.07	6,084.69	5,915.36	169.33	35.934	
7,700.00	7,159.79	7,136.79	7,136.79	50.93	123.59	119.31	-4,088.57	3,160.07	6,086.50	5,916.99	169.50	35.908	
7,750.00	7,205.70	7,182.70	7,182.70	51.32	124.39	110.62	-4,088.57	3,160.07	6,095.54	5,924.92	170.61	35.727	
7,800.00	7,252.52	7,229.52	7,229.52	51.66	125.21	99.14	-4,088.57	3,160.07	6,100.43	5,928.70	171.73	35.524	
7,850.00	7,299.89	7,276.89	7,276.89	51.96	126.04	85.05	-4,088.57	3,160.07	6,101.12	5,928.29	172.83	35.301	
7,900.00	7,347.44	7,324.44	7,324.44	52.20	126.87	69.75	-4,088.57	3,160.07	6,097.61	5,923.69	173.92	35.060	
7,950.00	7,394.83	7,371.83	7,371.83	52.39	127.69	55.36	-4,088.57	3,160.07	6,089.91	5,914.94	174.97	34.805	
8,000.00	7,441.68	7,418.68	7,418.68	52.53	128.51	43.32	-4,088.57	3,160.07	6,078.07	5,902.08	175.99	34.536	
8,050.00	7,487.65	7,464.65	7,464.65	52.62	129.31	33.86	-4,088.57	3,160.07	6,062.18	5,885.21	176.97	34.256	
8,100.00	7,532.37	7,509.37	7,509.37	52.67	130.09	26.52	-4,088.57	3,160.07	6,042.34	5,864.45	177.89	33.966	
8,150.00	7,575.52	7,552.52	7,552.52	52.67	130.85	20.73	-4,088.57	3,160.07	6,018.71	5,839.94	178.77	33.668	
8,200.00	7,616.76	7,606.24	7,593.76	52.63	131.79	16.00	-4,088.57	3,160.07	5,991.46	5,811.65	179.80	33.322	
8,250.00	7,655.77	7,632.77	7,632.77	52.55	132.25	11.93	-4,088.57	3,160.07	5,960.78	5,780.44	180.34	33.053	
8,300.00	7,692.27	7,669.27	7,669.27	52.44	132.89	8.25	-4,088.57	3,160.07	5,926.91	5,745.88	181.03	32.740	
8,350.00	7,725.97	7,702.97	7,702.97	52.29	133.47	4.68	-4,088.57	3,160.07	5,890.11	5,708.46	181.65	32.426	
8,400.00	7,756.62	7,733.62	7,733.62	52.12	134.01	0.97	-4,088.57	3,160.07	5,850.64	5,668.45	182.19	32.112	
8,450.00	7,783.98	7,760.98	7,760.98	51.92	134.49	-3.20	-4,088.57	3,160.07	5,808.81	5,626.15	182.66	31.801	
8,500.00	7,807.85	7,784.85	7,784.85	51.70	134.90	-8.25	-4,088.57	3,160.07	5,764.94	5,581.89	183.05	31.493	
8,550.00	7,828.05	7,805.05	7,805.05	51.45	135.26	-14.83	-4,088.57	3,160.07	5,719.37	5,536.00	183.36	31.191	
8,600.00	7,844.41	7,821.41	7,821.41	51.20	135.54	-24.02	-4,088.57	3,160.07	5,672.44	5,488.84	183.59	30.897	
8,650.00	7,856.82	7,833.82	7,833.82	50.93	135.76	-37.37	-4,088.57	3,160.07	5,624.51	5,440.77	183.74	30.611	
8,700.00	7,865.18	7,842.18	7,842.18	50.65	135.90	-56.24	-4,088.57	3,160.07	5,575.96	5,392.15	183.81	30.335	
8,750.00	7,869.43	7,846.43	7,846.43	50.36	135.98	-78.74	-4,088.57	3,160.07	5,527.16	5,343.36	183.80	30.071	
8,776.25	7,870.00	7,847.00	7,847.00	50.21	135.99	-90.00	-4,088.57	3,160.07	5,501.56	5,317.80	183.77	29.938	
8,800.00	7,870.00	7,847.00	7,847.00	50.08	135.99	-90.00	-4,088.57	3,160.07	5,478.45	5,294.73	183.72	29.819	
8,900.00	7,870.00	7,847.00	7,847.00	49.53	135.99	-90.00	-4,088.57	3,160.07	5,381.17	5,197.63	183.54	29.319	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,847.00	7,847.00	49.01	135.99	-90.00	-4,088.57	3,160.07	5,283.99	5,100.65	183.35	28.819	
9,100.00	7,870.00	7,847.00	7,847.00	48.52	135.99	-90.00	-4,088.57	3,160.07	5,186.93	5,003.77	183.16	28.320	
9,200.00	7,870.00	7,847.00	7,847.00	48.06	135.99	-90.00	-4,088.57	3,160.07	5,089.97	4,907.01	182.96	27.820	
9,300.00	7,870.00	7,847.00	7,847.00	47.63	135.99	-90.00	-4,088.57	3,160.07	4,993.13	4,810.37	182.76	27.321	
9,400.00	7,870.00	7,847.00	7,847.00	47.22	135.99	-90.00	-4,088.57	3,160.07	4,896.42	4,713.87	182.56	26.822	
9,500.00	7,870.00	7,847.00	7,847.00	46.83	135.99	-90.00	-4,088.57	3,160.07	4,799.85	4,617.50	182.35	26.323	
9,600.00	7,870.00	7,847.00	7,847.00	46.48	135.99	-90.00	-4,088.57	3,160.07	4,703.42	4,521.29	182.13	25.824	
9,700.00	7,870.00	7,847.00	7,847.00	46.14	135.99	-90.00	-4,088.57	3,160.07	4,607.14	4,425.22	181.92	25.325	
9,800.00	7,870.00	7,847.00	7,847.00	45.83	135.99	-90.00	-4,088.57	3,160.07	4,511.02	4,329.33	181.70	24.827	
9,900.00	7,870.00	7,847.00	7,847.00	45.54	135.99	-90.00	-4,088.57	3,160.07	4,415.08	4,233.61	181.48	24.329	
10,000.00	7,870.00	7,847.00	7,847.00	45.27	135.99	-90.00	-4,088.57	3,160.07	4,319.32	4,138.07	181.25	23.831	
10,100.00	7,870.00	7,847.00	7,847.00	45.03	135.99	-90.00	-4,088.57	3,160.07	4,223.76	4,042.74	181.02	23.333	
10,200.00	7,870.00	7,847.00	7,847.00	44.82	135.99	-90.00	-4,088.57	3,160.07	4,128.40	3,947.62	180.79	22.836	
10,300.00	7,870.00	7,847.00	7,847.00	44.66	135.99	-90.00	-4,088.57	3,160.07	4,033.28	3,852.72	180.55	22.339	
10,400.00	7,870.00	7,847.00	7,847.00	44.56	135.99	-90.00	-4,088.57	3,160.07	3,938.39	3,758.07	180.32	21.842	
10,500.00	7,870.00	7,847.00	7,847.00	44.58	135.99	-90.00	-4,088.57	3,160.07	3,843.76	3,663.68	180.08	21.345	
10,600.00	7,870.00	7,847.00	7,847.00	44.82	135.99	-90.00	-4,088.57	3,160.07	3,749.41	3,569.57	179.84	20.848	
10,700.00	7,870.00	7,847.00	7,847.00	45.36	135.99	-90.00	-4,088.57	3,160.07	3,655.36	3,475.76	179.61	20.352	
10,800.00	7,870.00	7,847.00	7,847.00	46.15	135.99	-90.00	-4,088.57	3,160.07	3,561.64	3,382.26	179.38	19.856	
10,900.00	7,870.00	7,847.00	7,847.00	47.09	135.99	-90.00	-4,088.57	3,160.07	3,468.27	3,289.12	179.15	19.360	
11,000.00	7,870.00	7,847.00	7,847.00	48.13	135.99	-90.00	-4,088.57	3,160.07	3,375.27	3,196.34	178.93	18.863	
11,100.00	7,870.00	7,847.00	7,847.00	49.22	135.99	-90.00	-4,088.57	3,160.07	3,282.69	3,103.97	178.72	18.367	
11,200.00	7,870.00	7,847.00	7,847.00	50.37	135.99	-90.00	-4,088.57	3,160.07	3,190.56	3,012.03	178.53	17.871	
11,300.00	7,870.00	7,847.00	7,847.00	51.55	135.99	-90.00	-4,088.57	3,160.07	3,098.91	2,920.56	178.35	17.375	
11,400.00	7,870.00	7,847.00	7,847.00	52.76	135.99	-90.00	-4,088.57	3,160.07	3,007.80	2,829.60	178.20	16.879	
11,500.00	7,870.00	7,847.00	7,847.00	54.00	135.99	-90.00	-4,088.57	3,160.07	2,917.26	2,739.19	178.07	16.383	
11,600.00	7,870.00	7,847.00	7,847.00	55.27	135.99	-90.00	-4,088.57	3,160.07	2,827.37	2,649.39	177.98	15.886	
11,700.00	7,870.00	7,847.00	7,847.00	56.56	135.99	-90.00	-4,088.57	3,160.07	2,738.18	2,560.25	177.93	15.389	
11,800.00	7,870.00	7,847.00	7,847.00	57.88	135.99	-90.00	-4,088.57	3,160.07	2,649.76	2,471.82	177.94	14.892	
11,900.00	7,870.00	7,847.00	7,847.00	59.21	135.99	-90.00	-4,088.57	3,160.07	2,562.19	2,384.18	178.01	14.394	
12,000.00	7,870.00	7,847.00	7,847.00	60.57	135.99	-90.00	-4,088.57	3,160.07	2,475.56	2,297.40	178.16	13.895	
12,100.00	7,870.00	7,847.00	7,847.00	61.94	135.99	-90.00	-4,088.57	3,160.07	2,389.98	2,211.57	178.40	13.397	
12,200.00	7,870.00	7,847.00	7,847.00	63.33	135.99	-90.00	-4,088.57	3,160.07	2,305.55	2,126.80	178.76	12.898	
12,300.00	7,870.00	7,847.00	7,847.00	64.74	135.99	-90.00	-4,088.57	3,160.07	2,222.42	2,043.18	179.24	12.399	
12,400.00	7,870.00	7,847.00	7,847.00	66.16	135.99	-90.00	-4,088.57	3,160.07	2,140.74	1,960.86	179.88	11.901	
12,500.00	7,870.00	7,847.00	7,847.00	67.59	135.99	-90.00	-4,088.57	3,160.07	2,060.67	1,879.97	180.70	11.404	
12,600.00	7,870.00	7,847.00	7,847.00	69.04	135.99	-90.00	-4,088.57	3,160.07	1,982.41	1,800.69	181.72	10.909	
12,700.00	7,870.00	7,847.00	7,847.00	70.51	135.99	-90.00	-4,088.57	3,160.07	1,906.19	1,723.22	182.97	10.418	
12,800.00	7,870.00	7,847.00	7,847.00	71.98	135.99	-90.00	-4,088.57	3,160.07	1,832.25	1,647.78	184.47	9.932	
12,900.00	7,870.00	7,847.00	7,847.00	73.47	135.99	-90.00	-4,088.57	3,160.07	1,760.89	1,574.64	186.25	9.454	
13,000.00	7,870.00	7,847.00	7,847.00	74.96	135.99	-90.00	-4,088.57	3,160.07	1,692.43	1,504.11	188.33	8.987	
13,100.00	7,870.00	7,847.00	7,847.00	76.47	135.99	-90.00	-4,088.57	3,160.07	1,627.24	1,436.53	190.71	8.532	
13,200.00	7,870.00	7,847.00	7,847.00	77.99	135.99	-90.00	-4,088.57	3,160.07	1,565.73	1,372.32	193.41	8.095	
13,300.00	7,870.00	7,847.00	7,847.00	79.51	135.99	-90.00	-4,088.57	3,160.07	1,508.34	1,311.92	196.42	7.679	
13,400.00	7,870.00	7,847.00	7,847.00	81.05	135.99	-90.00	-4,088.57	3,160.07	1,455.57	1,255.85	199.72	7.288	
13,500.00	7,870.00	7,847.00	7,847.00	82.59	135.99	-90.00	-4,088.57	3,160.07	1,407.94	1,204.67	203.27	6.926	
13,600.00	7,870.00	7,847.00	7,847.00	84.14	135.99	-90.00	-4,088.57	3,160.07	1,365.97	1,158.96	207.01	6.599	
13,700.00	7,870.00	7,847.00	7,847.00	85.70	135.99	-90.00	-4,088.57	3,160.07	1,330.22	1,119.35	210.87	6.308	
13,800.00	7,870.00	7,847.00	7,847.00	87.26	135.99	-90.00	-4,088.57	3,160.07	1,301.18	1,086.43	214.75	6.059	
13,900.00	7,870.00	7,847.00	7,847.00	88.83	135.99	-90.00	-4,088.57	3,160.07	1,279.32	1,060.77	218.55	5.854	
14,000.00	7,870.00	7,847.00	7,847.00	90.41	135.99	-90.00	-4,088.57	3,160.07	1,265.01	1,042.86	222.15	5.694	
14,100.00	7,870.00	7,847.00	7,847.00	92.00	135.99	-90.00	-4,088.57	3,160.07	1,258.51	1,033.06	225.45	5.582	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,132.04	7,870.00	7,847.00	7,847.00	92.51	135.99	-90.00	-4,088.57	3,160.07	1,258.10	1,031.67	226.43	5.556	CC
14,200.00	7,870.00	7,847.00	7,847.00	93.59	135.99	-90.00	-4,088.57	3,160.07	1,259.94	1,031.58	228.36	5.517	ES
14,300.00	7,870.00	7,847.00	7,847.00	95.18	135.99	-90.00	-4,088.57	3,160.07	1,269.26	1,038.46	230.81	5.499	SF
14,400.00	7,870.00	7,847.00	7,847.00	96.79	135.99	-90.00	-4,088.57	3,160.07	1,286.32	1,053.56	232.76	5.526	
14,500.00	7,870.00	7,847.00	7,847.00	98.39	135.99	-90.00	-4,088.57	3,160.07	1,310.81	1,076.59	234.22	5.596	
14,600.00	7,870.00	7,847.00	7,847.00	100.00	135.99	-90.00	-4,088.57	3,160.07	1,342.32	1,107.11	235.21	5.707	
14,700.00	7,870.00	7,847.00	7,847.00	101.62	135.99	-90.00	-4,088.57	3,160.07	1,380.36	1,144.61	235.76	5.855	
14,800.00	7,870.00	7,847.00	7,847.00	103.24	135.99	-90.00	-4,088.57	3,160.07	1,424.43	1,188.49	235.94	6.037	
14,900.00	7,870.00	7,847.00	7,847.00	104.87	135.99	-90.00	-4,088.57	3,160.07	1,473.97	1,238.17	235.80	6.251	
15,000.00	7,870.00	7,847.00	7,847.00	106.50	135.99	-90.00	-4,088.57	3,160.07	1,528.46	1,293.05	235.41	6.493	
15,100.00	7,870.00	7,847.00	7,847.00	108.13	135.99	-90.00	-4,088.57	3,160.07	1,587.38	1,352.56	234.82	6.760	
15,200.00	7,870.00	7,847.00	7,847.00	109.77	135.99	-90.00	-4,088.57	3,160.07	1,650.26	1,416.18	234.09	7.050	
15,300.00	7,870.00	7,847.00	7,847.00	111.41	135.99	-90.00	-4,088.57	3,160.07	1,716.67	1,483.42	233.25	7.360	
15,400.00	7,870.00	7,847.00	7,847.00	113.05	135.99	-90.00	-4,088.57	3,160.07	1,786.21	1,553.88	232.34	7.688	
15,500.00	7,870.00	7,847.00	7,847.00	114.70	135.99	-90.00	-4,088.57	3,160.07	1,858.53	1,627.15	231.39	8.032	
15,600.00	7,870.00	7,847.00	7,847.00	116.35	135.99	-90.00	-4,088.57	3,160.07	1,933.32	1,702.91	230.41	8.391	
15,700.00	7,870.00	7,847.00	7,847.00	118.00	135.99	-90.00	-4,088.57	3,160.07	2,010.31	1,780.87	229.44	8.762	
15,800.00	7,870.00	7,847.00	7,847.00	119.66	135.99	-90.00	-4,088.57	3,160.07	2,089.24	1,860.77	228.47	9.145	
15,900.00	7,870.00	7,847.00	7,847.00	121.32	135.99	-90.00	-4,088.57	3,160.07	2,169.91	1,942.40	227.52	9.537	
16,000.00	7,870.00	7,847.00	7,847.00	122.98	135.99	-90.00	-4,088.57	3,160.07	2,252.14	2,025.54	226.59	9.939	
16,100.00	7,870.00	7,847.00	7,847.00	124.65	135.99	-90.00	-4,088.57	3,160.07	2,335.75	2,110.05	225.69	10.349	
16,200.00	7,870.00	7,847.00	7,847.00	126.32	135.99	-90.00	-4,088.57	3,160.07	2,420.60	2,195.77	224.83	10.767	
16,300.00	7,870.00	7,847.00	7,847.00	127.99	135.99	-90.00	-4,088.57	3,160.07	2,506.57	2,282.58	223.99	11.190	
16,400.00	7,870.00	7,847.00	7,847.00	129.66	135.99	-90.00	-4,088.57	3,160.07	2,593.55	2,370.35	223.19	11.620	
16,500.00	7,870.00	7,847.00	7,847.00	131.33	135.99	-90.00	-4,088.57	3,160.07	2,681.43	2,459.00	222.43	12.055	
16,600.00	7,870.00	7,847.00	7,847.00	133.01	135.99	-90.00	-4,088.57	3,160.07	2,770.14	2,548.44	221.70	12.495	
16,700.00	7,870.00	7,847.00	7,847.00	134.69	135.99	-90.00	-4,088.57	3,160.07	2,859.59	2,638.59	221.00	12.939	
16,800.00	7,870.00	7,847.00	7,847.00	136.37	135.99	-90.00	-4,088.57	3,160.07	2,949.72	2,729.39	220.33	13.388	
16,900.00	7,870.00	7,847.00	7,847.00	138.06	135.99	-90.00	-4,088.57	3,160.07	3,040.47	2,820.77	219.70	13.839	
17,000.00	7,870.00	7,847.00	7,847.00	139.74	135.99	-90.00	-4,088.57	3,160.07	3,131.78	2,912.69	219.09	14.294	
17,100.00	7,870.00	7,847.00	7,847.00	141.43	135.99	-90.00	-4,088.57	3,160.07	3,223.61	3,005.09	218.51	14.752	
17,200.00	7,870.00	7,847.00	7,847.00	143.12	135.99	-90.00	-4,088.57	3,160.07	3,315.91	3,097.94	217.96	15.213	
17,300.00	7,870.00	7,847.00	7,847.00	144.81	135.99	-90.00	-4,088.57	3,160.07	3,408.64	3,191.20	217.44	15.676	
17,400.00	7,870.00	7,847.00	7,847.00	146.50	135.99	-90.00	-4,088.57	3,160.07	3,501.77	3,284.84	216.94	16.142	
17,500.00	7,870.00	7,847.00	7,847.00	148.19	135.99	-90.00	-4,088.57	3,160.07	3,595.28	3,378.82	216.46	16.610	
17,600.00	7,870.00	7,847.00	7,847.00	149.89	135.99	-90.00	-4,088.57	3,160.07	3,689.12	3,473.12	216.00	17.079	
17,700.00	7,870.00	7,847.00	7,847.00	151.59	135.99	-90.00	-4,088.57	3,160.07	3,783.28	3,567.71	215.57	17.550	
17,800.00	7,870.00	7,847.00	7,847.00	153.29	135.99	-90.00	-4,088.57	3,160.07	3,877.73	3,662.57	215.15	18.023	
17,900.00	7,870.00	7,847.00	7,847.00	154.99	135.99	-90.00	-4,088.57	3,160.07	3,972.45	3,757.69	214.76	18.497	
18,000.00	7,870.00	7,847.00	7,847.00	156.69	135.99	-90.00	-4,088.57	3,160.07	4,067.43	3,853.05	214.38	18.973	
18,100.00	7,870.00	7,847.00	7,847.00	158.39	135.99	-90.00	-4,088.57	3,160.07	4,162.64	3,948.62	214.02	19.450	
18,200.00	7,870.00	7,847.00	7,847.00	160.09	135.99	-90.00	-4,088.57	3,160.07	4,258.07	4,044.39	213.68	19.928	
18,300.00	7,870.00	7,847.00	7,847.00	161.80	135.99	-90.00	-4,088.57	3,160.07	4,353.71	4,140.36	213.35	20.407	
18,400.00	7,870.00	7,847.00	7,847.00	163.51	135.99	-90.00	-4,088.57	3,160.07	4,449.53	4,236.50	213.03	20.887	
18,455.45	7,870.00	7,847.00	7,847.00	164.45	135.99	-90.00	-4,088.57	3,160.07	4,502.75	4,289.88	212.86	21.153	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	145.39	-7,866.94	5,429.29	9,558.59				
100.00	100.00	74.00	74.00	0.13	0.57	145.39	-7,866.94	5,429.29	9,558.55	9,557.85	0.70	N/A	
200.00	200.00	174.00	174.00	0.49	2.06	145.39	-7,866.94	5,429.29	9,558.55	9,556.00	2.55	3,744.945	
300.00	300.00	274.00	274.00	0.85	3.80	145.39	-7,866.94	5,429.29	9,558.55	9,553.90	4.66	2,052.870	
400.00	400.00	374.00	374.00	1.21	5.55	145.39	-7,866.94	5,429.29	9,558.55	9,551.79	6.76	1,413.989	
500.00	500.00	474.00	474.00	1.57	7.30	145.39	-7,866.94	5,429.29	9,558.55	9,549.69	8.86	1,078.382	
600.00	600.00	574.00	574.00	1.93	9.04	145.39	-7,866.94	5,429.29	9,558.55	9,547.58	10.97	871.527	
700.00	700.00	674.00	674.00	2.29	10.79	145.39	-7,866.94	5,429.29	9,558.55	9,545.48	13.07	731.257	
800.00	800.00	774.00	774.00	2.64	12.53	145.39	-7,866.94	5,429.29	9,558.55	9,543.38	15.18	629.880	
900.00	900.00	874.00	874.00	3.00	14.28	145.39	-7,866.94	5,429.29	9,558.55	9,541.27	17.28	553.189	
1,000.00	1,000.00	974.00	974.00	3.36	16.02	145.39	-7,866.94	5,429.29	9,558.55	9,539.17	19.38	493.146	
1,100.00	1,100.00	1,074.00	1,074.00	3.72	17.77	145.39	-7,866.94	5,429.29	9,558.55	9,537.07	21.49	444.861	
1,200.00	1,200.00	1,174.00	1,174.00	4.08	19.51	145.39	-7,866.94	5,429.29	9,558.55	9,534.96	23.59	405.188	
1,300.00	1,300.00	1,274.00	1,274.00	4.44	21.26	145.39	-7,866.94	5,429.29	9,558.55	9,532.86	25.69	372.012	
1,400.00	1,399.98	1,373.98	1,373.98	4.79	23.00	102.45	-7,866.94	5,429.29	9,558.93	9,531.13	27.80	343.905	
1,500.00	1,499.84	1,473.84	1,473.84	5.15	24.75	102.46	-7,866.94	5,429.29	9,560.06	9,530.17	29.89	319.810	
1,600.00	1,599.45	1,573.45	1,573.45	5.51	26.48	102.47	-7,866.94	5,429.29	9,561.95	9,529.96	31.99	298.907	
1,700.00	1,698.70	1,672.70	1,672.70	5.87	28.22	102.49	-7,866.94	5,429.29	9,564.60	9,530.51	34.09	280.599	
1,800.00	1,797.47	1,771.47	1,771.47	6.24	29.94	102.51	-7,866.94	5,429.29	9,568.03	9,531.84	36.18	264.421	
1,900.00	1,895.62	1,869.62	1,869.62	6.63	31.65	102.54	-7,866.94	5,429.29	9,572.24	9,533.95	38.29	250.011	
2,000.00	1,993.06	1,967.06	1,967.06	7.04	33.35	102.57	-7,866.94	5,429.29	9,577.25	9,536.86	40.40	237.081	
2,100.00	2,089.64	2,063.64	2,063.64	7.48	35.04	102.60	-7,866.94	5,429.29	9,583.08	9,540.57	42.52	225.403	
2,200.00	2,185.27	2,159.27	2,159.27	7.94	36.71	102.64	-7,866.94	5,429.29	9,589.75	9,545.10	44.65	214.793	
2,300.00	2,279.82	2,253.82	2,253.82	8.45	38.36	102.67	-7,866.94	5,429.29	9,597.27	9,550.48	46.79	205.101	
2,400.00	2,373.17	2,347.17	2,347.17	8.99	39.99	102.70	-7,866.94	5,429.29	9,605.67	9,556.71	48.96	196.208	
2,500.00	2,465.21	2,439.21	2,439.21	9.58	41.59	102.73	-7,866.94	5,429.29	9,614.97	9,563.83	51.14	188.013	
2,574.08	2,532.50	2,506.50	2,506.50	10.04	42.77	102.74	-7,866.94	5,429.29	9,622.46	9,569.69	52.77	182.346	
2,600.00	2,555.89	2,529.89	2,529.89	10.21	43.18	102.80	-7,866.94	5,429.29	9,625.18	9,571.83	53.34	180.439	
2,700.00	2,646.16	2,620.16	2,620.16	10.88	44.75	103.03	-7,866.94	5,429.29	9,635.77	9,580.20	55.57	173.399	
2,800.00	2,736.44	2,710.44	2,710.44	11.57	46.33	103.26	-7,866.94	5,429.29	9,646.54	9,588.73	57.82	166.848	
2,900.00	2,826.71	2,800.71	2,800.71	12.27	47.90	103.48	-7,866.94	5,429.29	9,657.50	9,597.42	60.08	160.747	
3,000.00	2,916.98	2,909.02	2,890.98	13.00	49.79	103.71	-7,866.94	5,429.29	9,668.63	9,605.96	62.67	154.279	
3,100.00	3,007.25	2,981.25	2,981.25	13.73	51.06	103.93	-7,866.94	5,429.29	9,679.94	9,615.30	64.64	149.748	
3,200.00	3,097.52	3,071.52	3,071.52	14.48	52.63	104.16	-7,866.94	5,429.29	9,691.43	9,624.49	66.94	144.783	
3,300.00	3,187.80	3,161.80	3,161.80	15.23	54.21	104.38	-7,866.94	5,429.29	9,703.09	9,633.85	69.24	140.135	
3,400.00	3,278.07	3,252.07	3,252.07	15.99	55.78	104.60	-7,866.94	5,429.29	9,714.94	9,643.39	71.55	135.777	
3,500.00	3,368.34	3,342.34	3,342.34	16.76	57.36	104.83	-7,866.94	5,429.29	9,726.96	9,653.09	73.87	131.685	
3,600.00	3,458.61	3,432.61	3,432.61	17.54	58.93	105.05	-7,866.94	5,429.29	9,739.15	9,662.96	76.18	127.836	
3,700.00	3,548.89	3,522.89	3,522.89	18.32	60.51	105.27	-7,866.94	5,429.29	9,751.52	9,673.01	78.51	124.212	
3,800.00	3,639.16	3,613.16	3,613.16	19.10	62.08	105.49	-7,866.94	5,429.29	9,764.06	9,683.23	80.83	120.794	
3,900.00	3,729.43	3,703.43	3,703.43	19.89	63.66	105.71	-7,866.94	5,429.29	9,776.77	9,693.61	83.16	117.565	
4,000.00	3,819.70	3,806.30	3,793.70	20.69	65.46	105.93	-7,866.94	5,429.29	9,789.66	9,703.95	85.71	114.219	
4,100.00	3,909.98	3,883.98	3,883.98	21.48	66.81	106.15	-7,866.94	5,429.29	9,802.72	9,714.90	87.82	111.621	
4,200.00	4,000.25	3,974.25	3,974.25	22.28	68.39	106.37	-7,866.94	5,429.29	9,815.95	9,725.80	90.15	108.881	
4,300.00	4,090.52	4,064.52	4,064.52	23.08	69.96	106.59	-7,866.94	5,429.29	9,829.35	9,736.87	92.49	106.279	
4,400.00	4,180.79	4,154.79	4,154.79	23.88	71.54	106.81	-7,866.94	5,429.29	9,842.92	9,748.10	94.82	103.806	
4,500.00	4,271.06	4,245.06	4,245.06	24.69	73.11	107.03	-7,866.94	5,429.29	9,856.66	9,759.51	97.15	101.454	
4,600.00	4,361.34	4,335.34	4,335.34	25.49	74.69	107.25	-7,866.94	5,429.29	9,870.57	9,771.08	99.49	99.214	
4,700.00	4,451.61	4,425.61	4,425.61	26.30	76.26	107.47	-7,866.94	5,429.29	9,884.65	9,782.83	101.82	97.078	
4,800.00	4,541.88	4,515.88	4,515.88	27.11	77.84	107.68	-7,866.94	5,429.29	9,898.89	9,794.74	104.16	95.039	
4,900.00	4,632.15	4,606.15	4,606.15	27.92	79.42	107.90	-7,866.94	5,429.29	9,913.30	9,806.81	106.49	93.092	
5,000.00	4,722.43	4,703.57	4,696.43	28.74	81.12	108.11	-7,866.94	5,429.29	9,927.88	9,818.93	108.95	91.126	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,786.70	4,786.70	29.55	82.57	108.33	-7,866.94	5,429.29	9,942.62	9,831.46	111.15	89.449	
5,200.00	4,902.97	4,876.97	4,876.97	30.37	84.14	108.54	-7,866.94	5,429.29	9,957.52	9,844.03	113.49	87.743	
5,300.00	4,993.24	4,967.24	4,967.24	31.18	85.72	108.76	-7,866.94	5,429.29	9,972.59	9,856.77	115.82	86.107	
5,400.00	5,083.51	5,057.51	5,057.51	32.00	87.29	108.97	-7,866.94	5,429.29	9,987.82	9,869.67	118.15	84.538	
8,550.00	7,828.05	7,802.05	7,802.05	51.45	135.19	-33.27	-7,866.94	5,429.29	9,999.61	9,814.66	184.95	54.065	
8,600.00	7,844.41	7,818.41	7,818.41	51.20	135.48	-43.52	-7,866.94	5,429.29	9,953.87	9,768.75	185.12	53.769	
8,650.00	7,856.82	7,830.82	7,830.82	50.93	135.70	-55.81	-7,866.94	5,429.29	9,907.37	9,722.16	185.20	53.494	
8,700.00	7,865.18	7,839.18	7,839.18	50.65	135.84	-69.53	-7,866.94	5,429.29	9,860.46	9,675.26	185.20	53.241	
8,750.00	7,869.43	7,843.43	7,843.43	50.36	135.92	-83.29	-7,866.94	5,429.29	9,813.52	9,628.40	185.12	53.011	
8,776.25	7,870.00	7,844.00	7,844.00	50.21	135.93	-90.00	-7,866.94	5,429.29	9,788.98	9,603.93	185.05	52.900	
8,800.00	7,870.00	7,844.00	7,844.00	50.08	135.93	-90.00	-7,866.94	5,429.29	9,766.85	9,581.88	184.97	52.803	
8,900.00	7,870.00	7,844.00	7,844.00	49.53	135.93	-90.00	-7,866.94	5,429.29	9,673.71	9,489.07	184.64	52.392	
9,000.00	7,870.00	7,844.00	7,844.00	49.01	135.93	-90.00	-7,866.94	5,429.29	9,580.72	9,396.41	184.31	51.981	
9,100.00	7,870.00	7,844.00	7,844.00	48.52	135.93	-90.00	-7,866.94	5,429.29	9,487.87	9,303.88	183.99	51.568	
9,200.00	7,870.00	7,844.00	7,844.00	48.06	135.93	-90.00	-7,866.94	5,429.29	9,395.17	9,211.50	183.66	51.155	
9,300.00	7,870.00	7,844.00	7,844.00	47.63	135.93	-90.00	-7,866.94	5,429.29	9,302.61	9,119.28	183.34	50.741	
9,400.00	7,870.00	7,844.00	7,844.00	47.22	135.93	-90.00	-7,866.94	5,429.29	9,210.22	9,027.20	183.01	50.325	
9,500.00	7,870.00	7,844.00	7,844.00	46.83	135.93	-90.00	-7,866.94	5,429.29	9,117.98	8,935.29	182.69	49.909	
9,600.00	7,870.00	7,844.00	7,844.00	46.48	135.93	-90.00	-7,866.94	5,429.29	9,025.91	8,843.53	182.38	49.491	
9,700.00	7,870.00	7,844.00	7,844.00	46.14	135.93	-90.00	-7,866.94	5,429.29	8,934.01	8,751.94	182.06	49.071	
9,800.00	7,870.00	7,844.00	7,844.00	45.83	135.93	-90.00	-7,866.94	5,429.29	8,842.28	8,660.53	181.75	48.651	
9,900.00	7,870.00	7,844.00	7,844.00	45.54	135.93	-90.00	-7,866.94	5,429.29	8,750.74	8,569.29	181.45	48.228	
10,000.00	7,870.00	7,844.00	7,844.00	45.27	135.93	-90.00	-7,866.94	5,429.29	8,659.38	8,478.23	181.15	47.803	
10,100.00	7,870.00	7,844.00	7,844.00	45.03	135.93	-90.00	-7,866.94	5,429.29	8,568.22	8,387.36	180.85	47.377	
10,200.00	7,870.00	7,844.00	7,844.00	44.82	135.93	-90.00	-7,866.94	5,429.29	8,477.25	8,296.69	180.57	46.948	
10,300.00	7,870.00	7,844.00	7,844.00	44.66	135.93	-90.00	-7,866.94	5,429.29	8,386.49	8,206.20	180.29	46.517	
10,400.00	7,870.00	7,844.00	7,844.00	44.56	135.93	-90.00	-7,866.94	5,429.29	8,295.95	8,115.93	180.02	46.084	
10,500.00	7,870.00	7,844.00	7,844.00	44.58	135.93	-90.00	-7,866.94	5,429.29	8,205.62	8,025.86	179.76	45.648	
10,600.00	7,870.00	7,844.00	7,844.00	44.82	135.93	-90.00	-7,866.94	5,429.29	8,115.52	7,936.01	179.51	45.209	
10,700.00	7,870.00	7,844.00	7,844.00	45.36	135.93	-90.00	-7,866.94	5,429.29	8,025.65	7,846.38	179.28	44.767	
10,800.00	7,870.00	7,844.00	7,844.00	46.15	135.93	-90.00	-7,866.94	5,429.29	7,936.03	7,756.97	179.06	44.321	
10,900.00	7,870.00	7,844.00	7,844.00	47.09	135.93	-90.00	-7,866.94	5,429.29	7,846.66	7,667.81	178.85	43.873	
11,000.00	7,870.00	7,844.00	7,844.00	48.13	135.93	-90.00	-7,866.94	5,429.29	7,757.54	7,578.88	178.66	43.420	
11,100.00	7,870.00	7,844.00	7,844.00	49.22	135.93	-90.00	-7,866.94	5,429.29	7,668.70	7,490.21	178.49	42.963	
11,200.00	7,870.00	7,844.00	7,844.00	50.37	135.93	-90.00	-7,866.94	5,429.29	7,580.13	7,401.79	178.35	42.502	
11,300.00	7,870.00	7,844.00	7,844.00	51.55	135.93	-90.00	-7,866.94	5,429.29	7,491.86	7,313.63	178.22	42.037	
11,400.00	7,870.00	7,844.00	7,844.00	52.76	135.93	-90.00	-7,866.94	5,429.29	7,403.87	7,225.76	178.12	41.567	
11,500.00	7,870.00	7,844.00	7,844.00	54.00	135.93	-90.00	-7,866.94	5,429.29	7,316.20	7,138.16	178.04	41.092	
11,600.00	7,870.00	7,844.00	7,844.00	55.27	135.93	-90.00	-7,866.94	5,429.29	7,228.85	7,050.85	178.00	40.612	
11,700.00	7,870.00	7,844.00	7,844.00	56.56	135.93	-90.00	-7,866.94	5,429.29	7,141.83	6,963.85	177.98	40.126	
11,800.00	7,870.00	7,844.00	7,844.00	57.88	135.93	-90.00	-7,866.94	5,429.29	7,055.16	6,877.15	178.00	39.635	
11,900.00	7,870.00	7,844.00	7,844.00	59.21	135.93	-90.00	-7,866.94	5,429.29	6,968.84	6,790.78	178.06	39.139	
12,000.00	7,870.00	7,844.00	7,844.00	60.57	135.93	-90.00	-7,866.94	5,429.29	6,882.89	6,704.74	178.15	38.636	
12,100.00	7,870.00	7,844.00	7,844.00	61.94	135.93	-90.00	-7,866.94	5,429.29	6,797.32	6,619.04	178.28	38.127	
12,200.00	7,870.00	7,844.00	7,844.00	63.33	135.93	-90.00	-7,866.94	5,429.29	6,712.16	6,533.70	178.46	37.612	
12,300.00	7,870.00	7,844.00	7,844.00	64.74	135.93	-90.00	-7,866.94	5,429.29	6,627.41	6,448.73	178.68	37.091	
12,400.00	7,870.00	7,844.00	7,844.00	66.16	135.93	-90.00	-7,866.94	5,429.29	6,543.09	6,364.14	178.95	36.563	
12,500.00	7,870.00	7,844.00	7,844.00	67.59	135.93	-90.00	-7,866.94	5,429.29	6,459.22	6,279.94	179.27	36.030	
12,600.00	7,870.00	7,844.00	7,844.00	69.04	135.93	-90.00	-7,866.94	5,429.29	6,375.81	6,196.16	179.65	35.490	
12,700.00	7,870.00	7,844.00	7,844.00	70.51	135.93	-90.00	-7,866.94	5,429.29	6,292.89	6,112.80	180.08	34.944	
12,800.00	7,870.00	7,844.00	7,844.00	71.98	135.93	-90.00	-7,866.94	5,429.29	6,210.46	6,029.89	180.58	34.393	
12,900.00	7,870.00	7,844.00	7,844.00	73.47	135.93	-90.00	-7,866.94	5,429.29	6,128.57	5,947.44	181.13	33.835	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,000.00	7,870.00	7,844.00	7,844.00	74.96	135.93	-90.00	-7,866.94	5,429.29	6,047.21	5,865.47	181.75	33.273	
13,100.00	7,870.00	7,844.00	7,844.00	76.47	135.93	-90.00	-7,866.94	5,429.29	5,966.43	5,784.00	182.43	32.705	
13,200.00	7,870.00	7,844.00	7,844.00	77.99	135.93	-90.00	-7,866.94	5,429.29	5,886.23	5,703.05	183.18	32.134	
13,300.00	7,870.00	7,844.00	7,844.00	79.51	135.93	-90.00	-7,866.94	5,429.29	5,806.65	5,622.65	184.00	31.558	
13,400.00	7,870.00	7,844.00	7,844.00	81.05	135.93	-90.00	-7,866.94	5,429.29	5,727.71	5,542.82	184.89	30.979	
13,500.00	7,870.00	7,844.00	7,844.00	82.59	135.93	-90.00	-7,866.94	5,429.29	5,649.44	5,463.58	185.86	30.396	
13,600.00	7,870.00	7,844.00	7,844.00	84.14	135.93	-90.00	-7,866.94	5,429.29	5,571.86	5,384.96	186.90	29.812	
13,700.00	7,870.00	7,844.00	7,844.00	85.70	135.93	-90.00	-7,866.94	5,429.29	5,495.00	5,306.99	188.02	29.226	
13,800.00	7,870.00	7,844.00	7,844.00	87.26	135.93	-90.00	-7,866.94	5,429.29	5,418.90	5,229.69	189.21	28.639	
13,900.00	7,870.00	7,844.00	7,844.00	88.83	135.93	-90.00	-7,866.94	5,429.29	5,343.59	5,153.11	190.48	28.053	
14,000.00	7,870.00	7,844.00	7,844.00	90.41	135.93	-90.00	-7,866.94	5,429.29	5,269.10	5,077.27	191.84	27.466	
14,100.00	7,870.00	7,844.00	7,844.00	92.00	135.93	-90.00	-7,866.94	5,429.29	5,195.47	5,002.20	193.27	26.882	
14,200.00	7,870.00	7,844.00	7,844.00	93.59	135.93	-90.00	-7,866.94	5,429.29	5,122.73	4,927.95	194.79	26.299	
14,300.00	7,870.00	7,844.00	7,844.00	95.18	135.93	-90.00	-7,866.94	5,429.29	5,050.92	4,854.54	196.38	25.720	
14,400.00	7,870.00	7,844.00	7,844.00	96.79	135.93	-90.00	-7,866.94	5,429.29	4,980.09	4,782.03	198.06	25.145	
14,500.00	7,870.00	7,844.00	7,844.00	98.39	135.93	-90.00	-7,866.94	5,429.29	4,910.27	4,710.46	199.82	24.574	
14,600.00	7,870.00	7,844.00	7,844.00	100.00	135.93	-90.00	-7,866.94	5,429.29	4,841.51	4,639.85	201.66	24.009	
14,700.00	7,870.00	7,844.00	7,844.00	101.62	135.93	-90.00	-7,866.94	5,429.29	4,773.86	4,570.28	203.58	23.450	
14,800.00	7,870.00	7,844.00	7,844.00	103.24	135.93	-90.00	-7,866.94	5,429.29	4,707.35	4,501.77	205.58	22.898	
14,900.00	7,870.00	7,844.00	7,844.00	104.87	135.93	-90.00	-7,866.94	5,429.29	4,642.05	4,434.38	207.67	22.353	
15,000.00	7,870.00	7,844.00	7,844.00	106.50	135.93	-90.00	-7,866.94	5,429.29	4,578.00	4,368.17	209.83	21.818	
15,100.00	7,870.00	7,844.00	7,844.00	108.13	135.93	-90.00	-7,866.94	5,429.29	4,515.26	4,303.19	212.07	21.291	
15,200.00	7,870.00	7,844.00	7,844.00	109.77	135.93	-90.00	-7,866.94	5,429.29	4,453.88	4,239.49	214.39	20.775	
15,300.00	7,870.00	7,844.00	7,844.00	111.41	135.93	-90.00	-7,866.94	5,429.29	4,393.92	4,177.13	216.78	20.269	
15,400.00	7,870.00	7,844.00	7,844.00	113.05	135.93	-90.00	-7,866.94	5,429.29	4,335.43	4,116.18	219.25	19.774	
15,500.00	7,870.00	7,844.00	7,844.00	114.70	135.93	-90.00	-7,866.94	5,429.29	4,278.48	4,056.70	221.78	19.291	
15,600.00	7,870.00	7,844.00	7,844.00	116.35	135.93	-90.00	-7,866.94	5,429.29	4,223.14	3,998.75	224.39	18.821	
15,700.00	7,870.00	7,844.00	7,844.00	118.00	135.93	-90.00	-7,866.94	5,429.29	4,169.45	3,942.40	227.05	18.363	
15,800.00	7,870.00	7,844.00	7,844.00	119.66	135.93	-90.00	-7,866.94	5,429.29	4,117.50	3,887.72	229.78	17.919	
15,900.00	7,870.00	7,844.00	7,844.00	121.32	135.93	-90.00	-7,866.94	5,429.29	4,067.34	3,834.78	232.57	17.489	
16,000.00	7,870.00	7,844.00	7,844.00	122.98	135.93	-90.00	-7,866.94	5,429.29	4,019.05	3,783.64	235.40	17.073	
16,100.00	7,870.00	7,844.00	7,844.00	124.65	135.93	-90.00	-7,866.94	5,429.29	3,972.68	3,734.40	238.29	16.672	
16,200.00	7,870.00	7,844.00	7,844.00	126.32	135.93	-90.00	-7,866.94	5,429.29	3,928.32	3,687.11	241.21	16.286	
16,300.00	7,870.00	7,844.00	7,844.00	127.99	135.93	-90.00	-7,866.94	5,429.29	3,886.02	3,641.85	244.16	15.916	
16,400.00	7,870.00	7,844.00	7,844.00	129.66	135.93	-90.00	-7,866.94	5,429.29	3,845.86	3,598.71	247.15	15.561	
16,500.00	7,870.00	7,844.00	7,844.00	131.33	135.93	-90.00	-7,866.94	5,429.29	3,807.90	3,557.74	250.15	15.222	
16,600.00	7,870.00	7,844.00	7,844.00	133.01	135.93	-90.00	-7,866.94	5,429.29	3,772.21	3,519.04	253.17	14.900	
16,700.00	7,870.00	7,844.00	7,844.00	134.69	135.93	-90.00	-7,866.94	5,429.29	3,738.85	3,482.66	256.19	14.594	
16,800.00	7,870.00	7,844.00	7,844.00	136.37	135.93	-90.00	-7,866.94	5,429.29	3,707.89	3,448.69	259.21	14.305	
16,900.00	7,870.00	7,844.00	7,844.00	138.06	135.93	-90.00	-7,866.94	5,429.29	3,679.39	3,417.19	262.21	14.032	
17,000.00	7,870.00	7,844.00	7,844.00	139.74	135.93	-90.00	-7,866.94	5,429.29	3,653.41	3,388.22	265.19	13.777	
17,100.00	7,870.00	7,844.00	7,844.00	141.43	135.93	-90.00	-7,866.94	5,429.29	3,629.99	3,361.86	268.13	13.538	
17,200.00	7,870.00	7,844.00	7,844.00	143.12	135.93	-90.00	-7,866.94	5,429.29	3,609.20	3,338.16	271.04	13.316	
17,300.00	7,870.00	7,844.00	7,844.00	144.81	135.93	-90.00	-7,866.94	5,429.29	3,591.07	3,317.18	273.89	13.111	
17,400.00	7,870.00	7,844.00	7,844.00	146.50	135.93	-90.00	-7,866.94	5,429.29	3,575.65	3,298.97	276.68	12.923	
17,500.00	7,870.00	7,844.00	7,844.00	148.19	135.93	-90.00	-7,866.94	5,429.29	3,562.97	3,283.57	279.40	12.752	
17,600.00	7,870.00	7,844.00	7,844.00	149.89	135.93	-90.00	-7,866.94	5,429.29	3,553.05	3,271.01	282.04	12.598	
17,700.00	7,870.00	7,844.00	7,844.00	151.59	135.93	-90.00	-7,866.94	5,429.29	3,545.93	3,261.34	284.59	12.460	
17,800.00	7,870.00	7,844.00	7,844.00	153.29	135.93	-90.00	-7,866.94	5,429.29	3,541.63	3,254.58	287.05	12.338	
17,900.00	7,870.00	7,844.00	7,844.00	154.99	135.93	-90.00	-7,866.94	5,429.29	3,540.14	3,250.74	289.40	12.233	
17,902.68	7,870.00	7,844.00	7,844.00	155.03	135.93	-90.00	-7,866.94	5,429.29	3,540.14	3,250.67	289.47	12.230	CC
18,000.00	7,870.00	7,844.00	7,844.00	156.69	135.93	-90.00	-7,866.94	5,429.29	3,541.48	3,249.83	291.65	12.143	ES

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,100.00	7,870.00	7,844.00	7,844.00	158.39	135.93	-90.00	-7,866.94	5,429.29	3,545.63	3,251.86	293.78	12.069	
18,200.00	7,870.00	7,844.00	7,844.00	160.09	135.93	-90.00	-7,866.94	5,429.29	3,552.60	3,256.81	295.79	12.011	
18,300.00	7,870.00	7,844.00	7,844.00	161.80	135.93	-90.00	-7,866.94	5,429.29	3,562.36	3,264.69	297.67	11.967	
18,400.00	7,870.00	7,844.00	7,844.00	163.51	135.93	-90.00	-7,866.94	5,429.29	3,574.90	3,275.47	299.43	11.939	
18,455.45	7,870.00	7,844.00	7,844.00	164.45	135.93	-90.00	-7,866.94	5,429.29	3,583.03	3,282.68	300.35	11.929	SF

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	148.47	-5,432.04	3,332.48	6,372.84				
100.00	100.00	77.00	77.00	0.13	0.58	148.47	-5,432.04	3,332.48	6,372.80	6,372.08	0.72	8,863.098	
200.00	200.00	177.00	177.00	0.49	2.10	148.47	-5,432.04	3,332.48	6,372.80	6,370.20	2.60	2,454.832	
300.00	300.00	277.00	277.00	0.85	3.85	148.47	-5,432.04	3,332.48	6,372.80	6,368.10	4.70	1,355.965	
400.00	400.00	377.00	377.00	1.21	5.59	148.47	-5,432.04	3,332.48	6,372.80	6,365.99	6.80	936.677	
500.00	500.00	477.00	477.00	1.57	7.34	148.47	-5,432.04	3,332.48	6,372.80	6,363.89	8.91	715.448	
600.00	600.00	577.00	577.00	1.93	9.08	148.47	-5,432.04	3,332.48	6,372.80	6,361.78	11.01	578.754	
700.00	700.00	677.00	677.00	2.29	10.83	148.47	-5,432.04	3,332.48	6,372.80	6,359.68	13.12	485.916	
800.00	800.00	777.00	777.00	2.64	12.58	148.47	-5,432.04	3,332.48	6,372.80	6,357.58	15.22	418.744	
900.00	900.00	877.00	877.00	3.00	14.32	148.47	-5,432.04	3,332.48	6,372.80	6,355.47	17.32	367.889	
1,000.00	1,000.00	977.00	977.00	3.36	16.07	148.47	-5,432.04	3,332.48	6,372.80	6,353.37	19.43	328.048	
1,100.00	1,100.00	1,077.00	1,077.00	3.72	17.81	148.47	-5,432.04	3,332.48	6,372.80	6,351.27	21.53	295.993	
1,200.00	1,200.00	1,177.00	1,177.00	4.08	19.56	148.47	-5,432.04	3,332.48	6,372.80	6,349.16	23.63	269.645	
1,300.00	1,300.00	1,277.00	1,277.00	4.44	21.30	148.47	-5,432.04	3,332.48	6,372.80	6,347.06	25.74	247.604	
1,400.00	1,399.98	1,376.98	1,376.98	4.79	23.05	105.53	-5,432.04	3,332.48	6,373.26	6,345.42	27.84	228.934	
1,500.00	1,499.84	1,476.84	1,476.84	5.15	24.79	105.55	-5,432.04	3,332.48	6,374.67	6,344.73	29.94	212.938	
1,600.00	1,599.45	1,576.45	1,576.45	5.51	26.53	105.58	-5,432.04	3,332.48	6,377.01	6,344.98	32.03	199.073	
1,700.00	1,698.70	1,675.70	1,675.70	5.87	28.26	105.62	-5,432.04	3,332.48	6,380.32	6,346.19	34.13	186.940	
1,800.00	1,797.47	1,774.47	1,774.47	6.24	29.98	105.67	-5,432.04	3,332.48	6,384.58	6,348.36	36.23	176.231	
1,900.00	1,895.62	1,872.62	1,872.62	6.63	31.70	105.74	-5,432.04	3,332.48	6,389.84	6,351.51	38.33	166.704	
2,000.00	1,993.06	1,970.06	1,970.06	7.04	33.40	105.80	-5,432.04	3,332.48	6,396.10	6,355.66	40.44	158.169	
2,100.00	2,089.64	2,066.64	2,066.64	7.48	35.08	105.88	-5,432.04	3,332.48	6,403.40	6,360.84	42.56	150.472	
2,200.00	2,185.27	2,162.27	2,162.27	7.94	36.75	105.96	-5,432.04	3,332.48	6,411.76	6,367.07	44.68	143.492	
2,300.00	2,279.82	2,256.82	2,256.82	8.45	38.40	106.04	-5,432.04	3,332.48	6,421.21	6,374.38	46.83	137.129	
2,400.00	2,373.17	2,350.17	2,350.17	8.99	40.03	106.13	-5,432.04	3,332.48	6,431.78	6,382.80	48.98	131.303	
2,500.00	2,465.21	2,442.21	2,442.21	9.58	41.64	106.21	-5,432.04	3,332.48	6,443.52	6,392.36	51.16	125.949	
2,574.08	2,532.50	2,509.50	2,509.50	10.04	42.81	106.27	-5,432.04	3,332.48	6,452.99	6,400.21	52.78	122.254	
2,600.00	2,555.89	2,532.89	2,532.89	10.21	43.22	106.35	-5,432.04	3,332.48	6,456.43	6,403.08	53.35	121.012	
2,700.00	2,646.16	2,623.16	2,623.16	10.88	44.80	106.69	-5,432.04	3,332.48	6,469.86	6,414.29	55.57	116.430	
2,800.00	2,736.44	2,713.44	2,713.44	11.57	46.37	107.02	-5,432.04	3,332.48	6,483.54	6,425.74	57.80	112.168	
2,900.00	2,826.71	2,803.71	2,803.71	12.27	47.95	107.35	-5,432.04	3,332.48	6,497.49	6,437.44	60.05	108.201	
3,000.00	2,916.98	2,906.02	2,893.98	13.00	49.73	107.68	-5,432.04	3,332.48	6,511.68	6,449.16	62.52	104.153	
3,100.00	3,007.25	2,984.25	2,984.25	13.73	51.10	108.01	-5,432.04	3,332.48	6,526.13	6,461.55	64.58	101.055	
3,200.00	3,097.52	3,074.52	3,074.52	14.48	52.67	108.33	-5,432.04	3,332.48	6,540.84	6,473.98	66.86	97.832	
3,300.00	3,187.80	3,164.80	3,164.80	15.23	54.25	108.66	-5,432.04	3,332.48	6,555.79	6,486.64	69.14	94.817	
3,400.00	3,278.07	3,255.07	3,255.07	15.99	55.83	108.99	-5,432.04	3,332.48	6,570.98	6,499.55	71.43	91.991	
3,500.00	3,368.34	3,345.34	3,345.34	16.76	57.40	109.31	-5,432.04	3,332.48	6,586.43	6,512.71	73.72	89.340	
3,600.00	3,458.61	3,435.61	3,435.61	17.54	58.98	109.63	-5,432.04	3,332.48	6,602.12	6,526.10	76.02	86.849	
3,700.00	3,548.89	3,525.89	3,525.89	18.32	60.55	109.95	-5,432.04	3,332.48	6,618.05	6,539.73	78.32	84.504	
3,800.00	3,639.16	3,616.16	3,616.16	19.10	62.13	110.27	-5,432.04	3,332.48	6,634.22	6,553.60	80.62	82.294	
3,900.00	3,729.43	3,706.43	3,706.43	19.89	63.70	110.59	-5,432.04	3,332.48	6,650.63	6,567.71	82.92	80.209	
4,000.00	3,819.70	3,803.30	3,796.70	20.69	65.39	110.91	-5,432.04	3,332.48	6,667.28	6,581.95	85.33	78.133	
4,100.00	3,909.98	3,886.98	3,886.98	21.48	66.85	111.22	-5,432.04	3,332.48	6,684.16	6,596.64	87.52	76.374	
4,200.00	4,000.25	3,977.25	3,977.25	22.28	68.43	111.54	-5,432.04	3,332.48	6,701.28	6,611.46	89.82	74.608	
4,300.00	4,090.52	4,067.52	4,067.52	23.08	70.01	111.85	-5,432.04	3,332.48	6,718.63	6,626.51	92.12	72.934	
4,400.00	4,180.79	4,157.79	4,157.79	23.88	71.58	112.16	-5,432.04	3,332.48	6,736.20	6,641.79	94.42	71.343	
4,500.00	4,271.06	4,248.06	4,248.06	24.69	73.16	112.47	-5,432.04	3,332.48	6,754.01	6,657.29	96.72	69.832	
4,600.00	4,361.34	4,338.34	4,338.34	25.49	74.73	112.78	-5,432.04	3,332.48	6,772.05	6,673.03	99.02	68.394	
4,700.00	4,451.61	4,428.61	4,428.61	26.30	76.31	113.09	-5,432.04	3,332.48	6,790.30	6,688.99	101.31	67.024	
4,800.00	4,541.88	4,518.88	4,518.88	27.11	77.88	113.39	-5,432.04	3,332.48	6,808.79	6,705.18	103.61	65.718	
4,900.00	4,632.15	4,609.15	4,609.15	27.92	79.46	113.70	-5,432.04	3,332.48	6,827.49	6,721.59	105.90	64.472	
5,000.00	4,722.43	4,700.57	4,699.43	28.74	81.05	114.00	-5,432.04	3,332.48	6,846.41	6,738.20	108.21	63.269	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,789.70	4,789.70	29.55	82.61	114.30	-5,432.04	3,332.48	6,865.55	6,755.07	110.48	62.143	
5,200.00	4,902.97	4,879.97	4,879.97	30.37	84.19	114.60	-5,432.04	3,332.48	6,884.90	6,772.14	112.77	61.054	
5,300.00	4,993.24	4,970.24	4,970.24	31.18	85.76	114.90	-5,432.04	3,332.48	6,904.47	6,789.42	115.05	60.012	
5,400.00	5,083.51	5,060.51	5,060.51	32.00	87.34	115.20	-5,432.04	3,332.48	6,924.25	6,806.92	117.33	59.013	
5,500.00	5,173.79	5,150.79	5,150.79	32.82	88.91	115.49	-5,432.04	3,332.48	6,944.24	6,824.63	119.61	58.055	
5,600.00	5,264.06	5,241.06	5,241.06	33.63	90.49	115.79	-5,432.04	3,332.48	6,964.44	6,842.55	121.89	57.136	
5,700.00	5,354.33	5,331.33	5,331.33	34.45	92.06	116.08	-5,432.04	3,332.48	6,984.85	6,860.68	124.17	56.253	
5,800.00	5,444.60	5,421.60	5,421.60	35.27	93.64	116.37	-5,432.04	3,332.48	7,005.46	6,879.02	126.44	55.405	
5,900.00	5,534.88	5,511.88	5,511.88	36.09	95.21	116.66	-5,432.04	3,332.48	7,026.27	6,897.56	128.71	54.589	
6,000.00	5,625.15	5,602.15	5,602.15	36.91	96.79	116.95	-5,432.04	3,332.48	7,047.29	6,916.30	130.98	53.804	
6,100.00	5,715.42	5,707.58	5,692.42	37.74	98.63	117.24	-5,432.04	3,332.48	7,068.50	6,934.99	133.51	52.943	
6,200.00	5,805.69	5,782.69	5,782.69	38.56	99.94	117.53	-5,432.04	3,332.48	7,089.91	6,954.40	135.51	52.320	
6,300.00	5,895.96	5,872.96	5,872.96	39.38	101.52	117.81	-5,432.04	3,332.48	7,111.52	6,973.75	137.77	51.619	
6,400.00	5,986.24	5,963.24	5,963.24	40.20	103.09	118.09	-5,432.04	3,332.48	7,133.32	6,993.29	140.03	50.942	
6,500.00	6,076.51	6,053.51	6,053.51	41.03	104.67	118.37	-5,432.04	3,332.48	7,155.31	7,013.03	142.28	50.289	
6,600.00	6,166.78	6,143.78	6,143.78	41.85	106.24	118.65	-5,432.04	3,332.48	7,177.50	7,032.96	144.53	49.659	
6,700.00	6,257.05	6,234.05	6,234.05	42.67	107.82	118.93	-5,432.04	3,332.48	7,199.87	7,053.09	146.78	49.051	
6,800.00	6,347.33	6,324.33	6,324.33	43.50	109.39	119.21	-5,432.04	3,332.48	7,222.43	7,073.40	149.03	48.462	
6,900.00	6,437.60	6,414.60	6,414.60	44.32	110.97	119.48	-5,432.04	3,332.48	7,245.18	7,093.90	151.28	47.894	
7,000.00	6,527.87	6,504.87	6,504.87	45.15	112.55	119.76	-5,432.04	3,332.48	7,268.10	7,114.59	153.52	47.344	
7,100.00	6,618.14	6,604.86	6,595.14	45.98	114.29	120.03	-5,432.04	3,332.48	7,291.21	7,135.29	155.93	46.761	
7,200.00	6,708.41	6,685.41	6,685.41	46.80	115.70	120.30	-5,432.04	3,332.48	7,314.50	7,156.51	157.99	46.297	
7,300.00	6,798.69	6,775.69	6,775.69	47.63	117.27	120.57	-5,432.04	3,332.48	7,337.97	7,177.75	160.22	45.798	
7,400.00	6,888.96	6,865.96	6,865.96	48.45	118.85	120.84	-5,432.04	3,332.48	7,361.62	7,199.16	162.45	45.315	
7,500.00	6,979.23	6,956.23	6,956.23	49.28	120.42	121.11	-5,432.04	3,332.48	7,385.44	7,220.76	164.68	44.847	
7,600.00	7,069.50	7,046.50	7,046.50	50.11	122.00	121.37	-5,432.04	3,332.48	7,409.43	7,242.52	166.91	44.392	
7,692.09	7,152.63	7,129.63	7,129.63	50.87	123.45	121.61	-5,432.04	3,332.48	7,431.68	7,262.72	168.95	43.986	
7,700.00	7,159.79	7,136.79	7,136.79	50.93	123.57	120.46	-5,432.04	3,332.48	7,433.55	7,264.42	169.13	43.952	
7,750.00	7,205.70	7,182.70	7,182.70	51.32	124.38	111.73	-5,432.04	3,332.48	7,442.95	7,272.70	170.25	43.719	
7,800.00	7,252.52	7,229.52	7,229.52	51.66	125.19	100.23	-5,432.04	3,332.48	7,448.18	7,276.82	171.37	43.464	
7,850.00	7,299.89	7,276.89	7,276.89	51.96	126.02	86.12	-5,432.04	3,332.48	7,449.19	7,276.71	172.48	43.189	
7,900.00	7,347.44	7,324.44	7,324.44	52.20	126.85	70.80	-5,432.04	3,332.48	7,445.97	7,272.40	173.57	42.899	
7,950.00	7,394.83	7,371.83	7,371.83	52.39	127.68	56.41	-5,432.04	3,332.48	7,438.53	7,263.90	174.63	42.595	
8,000.00	7,441.68	7,418.68	7,418.68	52.53	128.49	44.38	-5,432.04	3,332.48	7,426.93	7,251.27	175.66	42.281	
8,050.00	7,487.65	7,464.65	7,464.65	52.62	129.30	34.94	-5,432.04	3,332.48	7,411.25	7,234.61	176.64	41.957	
8,100.00	7,532.37	7,509.37	7,509.37	52.67	130.08	27.63	-5,432.04	3,332.48	7,391.60	7,214.03	177.58	41.625	
8,150.00	7,575.52	7,552.52	7,552.52	52.67	130.83	21.88	-5,432.04	3,332.48	7,368.13	7,189.67	178.46	41.288	
8,200.00	7,616.76	7,606.24	7,593.76	52.63	131.77	17.20	-5,432.04	3,332.48	7,341.01	7,161.51	179.50	40.897	
8,250.00	7,655.77	7,632.77	7,632.77	52.55	132.23	13.22	-5,432.04	3,332.48	7,310.44	7,130.40	180.04	40.604	
8,300.00	7,692.27	7,669.27	7,669.27	52.44	132.87	9.64	-5,432.04	3,332.48	7,276.66	7,095.92	180.74	40.261	
8,350.00	7,725.97	7,702.97	7,702.97	52.29	133.46	6.21	-5,432.04	3,332.48	7,239.90	7,058.54	181.36	39.920	
8,400.00	7,756.62	7,733.62	7,733.62	52.12	133.99	2.67	-5,432.04	3,332.48	7,200.46	7,018.55	181.91	39.582	
8,450.00	7,783.98	7,760.98	7,760.98	51.92	134.47	-1.26	-5,432.04	3,332.48	7,158.64	6,976.25	182.39	39.250	
8,500.00	7,807.85	7,784.85	7,784.85	51.70	134.89	-5.99	-5,432.04	3,332.48	7,114.74	6,931.95	182.78	38.925	
8,550.00	7,828.05	7,805.05	7,805.05	51.45	135.24	-12.17	-5,432.04	3,332.48	7,069.10	6,886.00	183.10	38.608	
8,600.00	7,844.41	7,821.41	7,821.41	51.20	135.52	-20.89	-5,432.04	3,332.48	7,022.08	6,838.75	183.33	38.302	
8,650.00	7,856.82	7,833.82	7,833.82	50.93	135.74	-33.94	-5,432.04	3,332.48	6,974.04	6,790.55	183.49	38.008	
8,700.00	7,865.18	7,842.18	7,842.18	50.65	135.89	-53.30	-5,432.04	3,332.48	6,925.34	6,741.78	183.56	37.728	
8,750.00	7,869.43	7,846.43	7,846.43	50.36	135.96	-77.63	-5,432.04	3,332.48	6,876.36	6,692.80	183.55	37.462	
8,776.25	7,870.00	7,847.00	7,847.00	50.21	135.97	-90.00	-5,432.04	3,332.48	6,850.66	6,667.14	183.52	37.329	
8,800.00	7,870.00	7,847.00	7,847.00	50.08	135.97	-90.00	-5,432.04	3,332.48	6,827.44	6,643.96	183.48	37.211	
8,900.00	7,870.00	7,847.00	7,847.00	49.53	135.97	-90.00	-5,432.04	3,332.48	6,729.70	6,546.40	183.30	36.714	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	7,847.00	7,847.00	49.01	135.97	-90.00	-5,432.04	3,332.48	6,632.04	6,448.92	183.12	36.216	
9,100.00	7,870.00	7,847.00	7,847.00	48.52	135.97	-90.00	-5,432.04	3,332.48	6,534.44	6,351.50	182.94	35.719	
9,200.00	7,870.00	7,847.00	7,847.00	48.06	135.97	-90.00	-5,432.04	3,332.48	6,436.92	6,254.16	182.76	35.221	
9,300.00	7,870.00	7,847.00	7,847.00	47.63	135.97	-90.00	-5,432.04	3,332.48	6,339.48	6,156.91	182.57	34.723	
9,400.00	7,870.00	7,847.00	7,847.00	47.22	135.97	-90.00	-5,432.04	3,332.48	6,242.12	6,059.73	182.38	34.225	
9,500.00	7,870.00	7,847.00	7,847.00	46.83	135.97	-90.00	-5,432.04	3,332.48	6,144.84	5,962.65	182.19	33.727	
9,600.00	7,870.00	7,847.00	7,847.00	46.48	135.97	-90.00	-5,432.04	3,332.48	6,047.65	5,865.65	182.00	33.229	
9,700.00	7,870.00	7,847.00	7,847.00	46.14	135.97	-90.00	-5,432.04	3,332.48	5,950.55	5,768.75	181.80	32.731	
9,800.00	7,870.00	7,847.00	7,847.00	45.83	135.97	-90.00	-5,432.04	3,332.48	5,853.55	5,671.95	181.60	32.233	
9,900.00	7,870.00	7,847.00	7,847.00	45.54	135.97	-90.00	-5,432.04	3,332.48	5,756.66	5,575.25	181.40	31.734	
10,000.00	7,870.00	7,847.00	7,847.00	45.27	135.97	-90.00	-5,432.04	3,332.48	5,659.87	5,478.67	181.20	31.235	
10,100.00	7,870.00	7,847.00	7,847.00	45.03	135.97	-90.00	-5,432.04	3,332.48	5,563.19	5,382.20	181.00	30.736	
10,200.00	7,870.00	7,847.00	7,847.00	44.82	135.97	-90.00	-5,432.04	3,332.48	5,466.64	5,285.85	180.79	30.237	
10,300.00	7,870.00	7,847.00	7,847.00	44.66	135.97	-90.00	-5,432.04	3,332.48	5,370.21	5,189.63	180.58	29.738	
10,400.00	7,870.00	7,847.00	7,847.00	44.56	135.97	-90.00	-5,432.04	3,332.48	5,273.92	5,093.54	180.38	29.239	
10,500.00	7,870.00	7,847.00	7,847.00	44.58	135.97	-90.00	-5,432.04	3,332.48	5,177.76	4,997.59	180.17	28.739	
10,600.00	7,870.00	7,847.00	7,847.00	44.82	135.97	-90.00	-5,432.04	3,332.48	5,081.75	4,901.79	179.96	28.238	
10,700.00	7,870.00	7,847.00	7,847.00	45.36	135.97	-90.00	-5,432.04	3,332.48	4,985.90	4,806.15	179.75	27.738	
10,800.00	7,870.00	7,847.00	7,847.00	46.15	135.97	-90.00	-5,432.04	3,332.48	4,890.22	4,710.68	179.54	27.237	
10,900.00	7,870.00	7,847.00	7,847.00	47.09	135.97	-90.00	-5,432.04	3,332.48	4,794.71	4,615.37	179.34	26.736	
11,000.00	7,870.00	7,847.00	7,847.00	48.13	135.97	-90.00	-5,432.04	3,332.48	4,699.39	4,520.26	179.13	26.234	
11,100.00	7,870.00	7,847.00	7,847.00	49.22	135.97	-90.00	-5,432.04	3,332.48	4,604.27	4,425.33	178.94	25.731	
11,200.00	7,870.00	7,847.00	7,847.00	50.37	135.97	-90.00	-5,432.04	3,332.48	4,509.36	4,330.62	178.74	25.228	
11,300.00	7,870.00	7,847.00	7,847.00	51.55	135.97	-90.00	-5,432.04	3,332.48	4,414.67	4,236.12	178.55	24.725	
11,400.00	7,870.00	7,847.00	7,847.00	52.76	135.97	-90.00	-5,432.04	3,332.48	4,320.23	4,141.85	178.37	24.220	
11,500.00	7,870.00	7,847.00	7,847.00	54.00	135.97	-90.00	-5,432.04	3,332.48	4,226.03	4,047.83	178.20	23.715	
11,600.00	7,870.00	7,847.00	7,847.00	55.27	135.97	-90.00	-5,432.04	3,332.48	4,132.12	3,954.07	178.05	23.208	
11,700.00	7,870.00	7,847.00	7,847.00	56.56	135.97	-90.00	-5,432.04	3,332.48	4,038.49	3,860.59	177.90	22.701	
11,800.00	7,870.00	7,847.00	7,847.00	57.88	135.97	-90.00	-5,432.04	3,332.48	3,945.18	3,767.40	177.78	22.192	
11,900.00	7,870.00	7,847.00	7,847.00	59.21	135.97	-90.00	-5,432.04	3,332.48	3,852.20	3,674.53	177.67	21.682	
12,000.00	7,870.00	7,847.00	7,847.00	60.57	135.97	-90.00	-5,432.04	3,332.48	3,759.58	3,581.99	177.59	21.170	
12,100.00	7,870.00	7,847.00	7,847.00	61.94	135.97	-90.00	-5,432.04	3,332.48	3,667.35	3,489.82	177.54	20.657	
12,200.00	7,870.00	7,847.00	7,847.00	63.33	135.97	-90.00	-5,432.04	3,332.48	3,575.54	3,398.02	177.52	20.142	
12,300.00	7,870.00	7,847.00	7,847.00	64.74	135.97	-90.00	-5,432.04	3,332.48	3,484.18	3,306.64	177.54	19.625	
12,400.00	7,870.00	7,847.00	7,847.00	66.16	135.97	-90.00	-5,432.04	3,332.48	3,393.31	3,215.70	177.60	19.106	
12,500.00	7,870.00	7,847.00	7,847.00	67.59	135.97	-90.00	-5,432.04	3,332.48	3,302.96	3,125.24	177.72	18.585	
12,600.00	7,870.00	7,847.00	7,847.00	69.04	135.97	-90.00	-5,432.04	3,332.48	3,213.19	3,035.28	177.90	18.061	
12,700.00	7,870.00	7,847.00	7,847.00	70.51	135.97	-90.00	-5,432.04	3,332.48	3,124.03	2,945.88	178.15	17.536	
12,800.00	7,870.00	7,847.00	7,847.00	71.98	135.97	-90.00	-5,432.04	3,332.48	3,035.56	2,857.07	178.48	17.007	
12,900.00	7,870.00	7,847.00	7,847.00	73.47	135.97	-90.00	-5,432.04	3,332.48	2,947.81	2,768.91	178.91	16.477	
13,000.00	7,870.00	7,847.00	7,847.00	74.96	135.97	-90.00	-5,432.04	3,332.48	2,860.88	2,681.45	179.43	15.944	
13,100.00	7,870.00	7,847.00	7,847.00	76.47	135.97	-90.00	-5,432.04	3,332.48	2,774.82	2,594.75	180.07	15.409	
13,200.00	7,870.00	7,847.00	7,847.00	77.99	135.97	-90.00	-5,432.04	3,332.48	2,689.73	2,508.89	180.85	14.873	
13,300.00	7,870.00	7,847.00	7,847.00	79.51	135.97	-90.00	-5,432.04	3,332.48	2,605.70	2,423.94	181.77	14.335	
13,400.00	7,870.00	7,847.00	7,847.00	81.05	135.97	-90.00	-5,432.04	3,332.48	2,522.84	2,339.99	182.85	13.798	
13,500.00	7,870.00	7,847.00	7,847.00	82.59	135.97	-90.00	-5,432.04	3,332.48	2,441.25	2,257.15	184.10	13.260	
13,600.00	7,870.00	7,847.00	7,847.00	84.14	135.97	-90.00	-5,432.04	3,332.48	2,361.09	2,175.53	185.55	12.725	
13,700.00	7,870.00	7,847.00	7,847.00	85.70	135.97	-90.00	-5,432.04	3,332.48	2,282.49	2,095.27	187.21	12.192	
13,800.00	7,870.00	7,847.00	7,847.00	87.26	135.97	-90.00	-5,432.04	3,332.48	2,205.62	2,016.52	189.10	11.664	
13,900.00	7,870.00	7,847.00	7,847.00	88.83	135.97	-90.00	-5,432.04	3,332.48	2,130.68	1,939.45	191.22	11.142	
14,000.00	7,870.00	7,847.00	7,847.00	90.41	135.97	-90.00	-5,432.04	3,332.48	2,057.86	1,864.27	193.60	10.630	
14,100.00	7,870.00	7,847.00	7,847.00	92.00	135.97	-90.00	-5,432.04	3,332.48	1,987.42	1,791.18	196.23	10.128	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	7,847.00	7,847.00	93.59	135.97	-90.00	-5,432.04	3,332.48	1,919.59	1,720.46	199.14	9.640	
14,300.00	7,870.00	7,847.00	7,847.00	95.18	135.97	-90.00	-5,432.04	3,332.48	1,854.68	1,652.38	202.31	9.168	
14,400.00	7,870.00	7,847.00	7,847.00	96.79	135.97	-90.00	-5,432.04	3,332.48	1,793.01	1,587.27	205.74	8.715	
14,500.00	7,870.00	7,847.00	7,847.00	98.39	135.97	-90.00	-5,432.04	3,332.48	1,734.90	1,525.48	209.42	8.284	
14,600.00	7,870.00	7,847.00	7,847.00	100.00	135.97	-90.00	-5,432.04	3,332.48	1,680.75	1,467.42	213.32	7.879	
14,700.00	7,870.00	7,847.00	7,847.00	101.62	135.97	-90.00	-5,432.04	3,332.48	1,630.93	1,413.51	217.42	7.501	
14,800.00	7,870.00	7,847.00	7,847.00	103.24	135.97	-90.00	-5,432.04	3,332.48	1,585.86	1,364.20	221.66	7.154	
14,900.00	7,870.00	7,847.00	7,847.00	104.87	135.97	-90.00	-5,432.04	3,332.48	1,545.95	1,319.96	225.99	6.841	
15,000.00	7,870.00	7,847.00	7,847.00	106.50	135.97	-90.00	-5,432.04	3,332.48	1,511.61	1,281.29	230.32	6.563	
15,100.00	7,870.00	7,847.00	7,847.00	108.13	135.97	-90.00	-5,432.04	3,332.48	1,483.24	1,248.65	234.58	6.323	
15,200.00	7,870.00	7,847.00	7,847.00	109.77	135.97	-90.00	-5,432.04	3,332.48	1,461.17	1,222.48	238.69	6.122	
15,300.00	7,870.00	7,847.00	7,847.00	111.41	135.97	-90.00	-5,432.04	3,332.48	1,445.69	1,203.16	242.54	5.961	
15,400.00	7,870.00	7,847.00	7,847.00	113.05	135.97	-90.00	-5,432.04	3,332.48	1,437.03	1,190.98	246.05	5.840	
15,474.91	7,870.00	7,847.00	7,847.00	114.29	135.97	-90.00	-5,432.04	3,332.48	1,435.07	1,186.66	248.42	5.777	CC
15,500.00	7,870.00	7,847.00	7,847.00	114.70	135.97	-90.00	-5,432.04	3,332.48	1,435.29	1,186.14	249.15	5.761	ES
15,600.00	7,870.00	7,847.00	7,847.00	116.35	135.97	-90.00	-5,432.04	3,332.48	1,440.51	1,188.73	251.79	5.721	
15,700.00	7,870.00	7,847.00	7,847.00	118.00	135.97	-90.00	-5,432.04	3,332.48	1,452.62	1,198.69	253.92	5.721	SF
15,800.00	7,870.00	7,847.00	7,847.00	119.66	135.97	-90.00	-5,432.04	3,332.48	1,471.43	1,215.88	255.55	5.758	
15,900.00	7,870.00	7,847.00	7,847.00	121.32	135.97	-90.00	-5,432.04	3,332.48	1,496.71	1,240.02	256.68	5.831	
16,000.00	7,870.00	7,847.00	7,847.00	122.98	135.97	-90.00	-5,432.04	3,332.48	1,528.12	1,270.77	257.35	5.938	
16,100.00	7,870.00	7,847.00	7,847.00	124.65	135.97	-90.00	-5,432.04	3,332.48	1,565.30	1,307.71	257.60	6.077	
16,200.00	7,870.00	7,847.00	7,847.00	126.32	135.97	-90.00	-5,432.04	3,332.48	1,607.85	1,350.38	257.47	6.245	
16,300.00	7,870.00	7,847.00	7,847.00	127.99	135.97	-90.00	-5,432.04	3,332.48	1,655.35	1,398.32	257.04	6.440	
16,400.00	7,870.00	7,847.00	7,847.00	129.66	135.97	-90.00	-5,432.04	3,332.48	1,707.40	1,451.05	256.35	6.660	
16,500.00	7,870.00	7,847.00	7,847.00	131.33	135.97	-90.00	-5,432.04	3,332.48	1,763.59	1,508.13	255.46	6.904	
16,600.00	7,870.00	7,847.00	7,847.00	133.01	135.97	-90.00	-5,432.04	3,332.48	1,823.53	1,569.11	254.41	7.168	
16,700.00	7,870.00	7,847.00	7,847.00	134.69	135.97	-90.00	-5,432.04	3,332.48	1,886.87	1,633.61	253.25	7.451	
16,800.00	7,870.00	7,847.00	7,847.00	136.37	135.97	-90.00	-5,432.04	3,332.48	1,953.28	1,701.26	252.01	7.751	
16,900.00	7,870.00	7,847.00	7,847.00	138.06	135.97	-90.00	-5,432.04	3,332.48	2,022.45	1,771.73	250.72	8.066	
17,000.00	7,870.00	7,847.00	7,847.00	139.74	135.97	-90.00	-5,432.04	3,332.48	2,094.12	1,844.71	249.41	8.396	
17,100.00	7,870.00	7,847.00	7,847.00	141.43	135.97	-90.00	-5,432.04	3,332.48	2,168.03	1,919.94	248.08	8.739	
17,200.00	7,870.00	7,847.00	7,847.00	143.12	135.97	-90.00	-5,432.04	3,332.48	2,243.96	1,997.20	246.76	9.094	
17,300.00	7,870.00	7,847.00	7,847.00	144.81	135.97	-90.00	-5,432.04	3,332.48	2,321.72	2,076.25	245.46	9.458	
17,400.00	7,870.00	7,847.00	7,847.00	146.50	135.97	-90.00	-5,432.04	3,332.48	2,401.12	2,156.93	244.19	9.833	
17,500.00	7,870.00	7,847.00	7,847.00	148.19	135.97	-90.00	-5,432.04	3,332.48	2,482.02	2,239.07	242.95	10.216	
17,600.00	7,870.00	7,847.00	7,847.00	149.89	135.97	-90.00	-5,432.04	3,332.48	2,564.26	2,322.52	241.74	10.607	
17,700.00	7,870.00	7,847.00	7,847.00	151.59	135.97	-90.00	-5,432.04	3,332.48	2,647.72	2,407.15	240.58	11.006	
17,800.00	7,870.00	7,847.00	7,847.00	153.29	135.97	-90.00	-5,432.04	3,332.48	2,732.30	2,492.85	239.45	11.411	
17,900.00	7,870.00	7,847.00	7,847.00	154.99	135.97	-90.00	-5,432.04	3,332.48	2,817.89	2,579.52	238.37	11.822	
18,000.00	7,870.00	7,847.00	7,847.00	156.69	135.97	-90.00	-5,432.04	3,332.48	2,904.39	2,667.06	237.33	12.238	
18,100.00	7,870.00	7,847.00	7,847.00	158.39	135.97	-90.00	-5,432.04	3,332.48	2,991.74	2,755.41	236.33	12.659	
18,200.00	7,870.00	7,847.00	7,847.00	160.09	135.97	-90.00	-5,432.04	3,332.48	3,079.86	2,844.49	235.37	13.085	
18,300.00	7,870.00	7,847.00	7,847.00	161.80	135.97	-90.00	-5,432.04	3,332.48	3,168.68	2,934.23	234.45	13.515	
18,400.00	7,870.00	7,847.00	7,847.00	163.51	135.97	-90.00	-5,432.04	3,332.48	3,258.15	3,024.59	233.57	13.949	
18,455.45	7,870.00	7,847.00	7,847.00	164.45	135.97	-90.00	-5,432.04	3,332.48	3,308.02	3,074.93	233.10	14.192	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	134.02	-5,559.83	5,753.94	8,001.32				
100.00	100.00	60.00	60.00	0.13	0.50	134.02	-5,559.83	5,753.94	8,001.22	8,000.59	0.63	N/A	
200.00	200.00	160.00	160.00	0.49	1.88	134.02	-5,559.83	5,753.94	8,001.22	7,998.85	2.37	3,377.284	
300.00	300.00	260.00	260.00	0.85	3.62	134.02	-5,559.83	5,753.94	8,001.22	7,996.75	4.47	1,788.810	
400.00	400.00	360.00	360.00	1.21	5.37	134.02	-5,559.83	5,753.94	8,001.22	7,994.64	6.58	1,216.595	
500.00	500.00	460.00	460.00	1.57	7.11	134.02	-5,559.83	5,753.94	8,001.22	7,992.54	8.68	921.743	
600.00	600.00	560.00	560.00	1.93	8.86	134.02	-5,559.83	5,753.94	8,001.22	7,990.44	10.78	741.930	
700.00	700.00	660.00	660.00	2.29	10.60	134.02	-5,559.83	5,753.94	8,001.22	7,988.33	12.89	620.821	
800.00	800.00	760.00	760.00	2.64	12.35	134.02	-5,559.83	5,753.94	8,001.22	7,986.23	14.99	533.702	
900.00	900.00	860.00	860.00	3.00	14.09	134.02	-5,559.83	5,753.94	8,001.22	7,984.12	17.10	468.024	
1,000.00	1,000.00	960.00	960.00	3.36	15.84	134.02	-5,559.83	5,753.94	8,001.22	7,982.02	19.20	416.740	
1,100.00	1,100.00	1,060.00	1,060.00	3.72	17.58	134.02	-5,559.83	5,753.94	8,001.22	7,979.92	21.30	375.585	
1,200.00	1,200.00	1,160.00	1,160.00	4.08	19.33	134.02	-5,559.83	5,753.94	8,001.22	7,977.81	23.41	341.828	
1,300.00	1,300.00	1,260.00	1,260.00	4.44	21.07	134.02	-5,559.83	5,753.94	8,001.22	7,975.71	25.51	313.639	
1,400.00	1,399.98	1,359.98	1,359.98	4.79	22.82	91.09	-5,559.83	5,753.94	8,001.25	7,973.64	27.61	289.776	
1,500.00	1,499.84	1,459.84	1,459.84	5.15	24.56	91.12	-5,559.83	5,753.94	8,001.35	7,971.64	29.71	269.323	
1,600.00	1,599.45	1,559.45	1,559.45	5.51	26.30	91.18	-5,559.83	5,753.94	8,001.53	7,969.72	31.81	251.579	
1,700.00	1,698.70	1,658.70	1,658.70	5.87	28.03	91.26	-5,559.83	5,753.94	8,001.79	7,967.89	33.90	236.031	
1,800.00	1,797.47	1,757.47	1,757.47	6.24	29.76	91.36	-5,559.83	5,753.94	8,002.15	7,966.15	36.00	222.284	
1,900.00	1,895.62	1,855.62	1,855.62	6.63	31.47	91.49	-5,559.83	5,753.94	8,002.64	7,964.53	38.10	210.029	
2,000.00	1,993.06	1,953.06	1,953.06	7.04	33.17	91.63	-5,559.83	5,753.94	8,003.27	7,963.05	40.21	199.021	
2,100.00	2,089.64	2,049.64	2,049.64	7.48	34.86	91.80	-5,559.83	5,753.94	8,004.07	7,961.73	42.33	189.068	
2,200.00	2,185.27	2,145.27	2,145.27	7.94	36.53	91.98	-5,559.83	5,753.94	8,005.07	7,960.61	44.47	180.012	
2,300.00	2,279.82	2,239.82	2,239.82	8.45	38.18	92.17	-5,559.83	5,753.94	8,006.32	7,959.70	46.62	171.729	
2,400.00	2,373.17	2,333.17	2,333.17	8.99	39.81	92.38	-5,559.83	5,753.94	8,007.85	7,959.05	48.79	164.116	
2,500.00	2,465.21	2,425.21	2,425.21	9.58	41.41	92.60	-5,559.83	5,753.94	8,009.69	7,958.70	50.99	157.091	
2,574.08	2,532.50	2,507.50	2,492.50	10.04	42.85	92.77	-5,559.83	5,753.94	8,011.29	7,958.40	52.89	151.472	
2,600.00	2,555.89	2,515.89	2,515.89	10.21	42.99	92.84	-5,559.83	5,753.94	8,011.89	7,958.69	53.20	150.587	
2,700.00	2,646.16	2,606.16	2,606.16	10.88	44.57	93.12	-5,559.83	5,753.94	8,014.37	7,958.92	55.45	144.541	
2,800.00	2,736.44	2,703.56	2,696.44	11.57	46.27	93.40	-5,559.83	5,753.94	8,017.08	7,959.24	57.84	138.619	
2,900.00	2,826.71	2,786.71	2,786.71	12.27	47.72	93.67	-5,559.83	5,753.94	8,020.01	7,960.02	59.99	133.684	
3,000.00	2,916.98	2,876.98	2,876.98	13.00	49.30	93.95	-5,559.83	5,753.94	8,023.18	7,960.89	62.29	128.807	
3,100.00	3,007.25	2,967.25	2,967.25	13.73	50.87	94.23	-5,559.83	5,753.94	8,026.58	7,961.98	64.60	124.258	
3,200.00	3,097.52	3,057.52	3,057.52	14.48	52.45	94.50	-5,559.83	5,753.94	8,030.20	7,963.29	66.91	120.008	
3,300.00	3,187.80	3,147.80	3,147.80	15.23	54.02	94.78	-5,559.83	5,753.94	8,034.05	7,964.81	69.24	116.032	
3,400.00	3,278.07	3,238.07	3,238.07	15.99	55.60	95.06	-5,559.83	5,753.94	8,038.14	7,966.56	71.57	112.306	
3,500.00	3,368.34	3,328.34	3,328.34	16.76	57.17	95.33	-5,559.83	5,753.94	8,042.45	7,968.53	73.91	108.809	
3,600.00	3,458.61	3,418.61	3,418.61	17.54	58.75	95.61	-5,559.83	5,753.94	8,046.98	7,970.73	76.26	105.524	
3,700.00	3,548.89	3,508.89	3,508.89	18.32	60.33	95.88	-5,559.83	5,753.94	8,051.75	7,973.14	78.61	102.431	
3,800.00	3,639.16	3,600.84	3,599.16	19.10	61.93	96.16	-5,559.83	5,753.94	8,056.74	7,975.75	80.99	99.481	
3,900.00	3,729.43	3,689.43	3,689.43	19.89	63.48	96.43	-5,559.83	5,753.94	8,061.96	7,978.64	83.31	96.766	
4,000.00	3,819.70	3,779.70	3,779.70	20.69	65.05	96.71	-5,559.83	5,753.94	8,067.40	7,981.73	85.67	94.166	
4,100.00	3,909.98	3,869.98	3,869.98	21.48	66.63	96.98	-5,559.83	5,753.94	8,073.07	7,985.04	88.03	91.706	
4,200.00	4,000.25	3,960.25	3,960.25	22.28	68.20	97.25	-5,559.83	5,753.94	8,078.97	7,988.58	90.39	89.376	
4,300.00	4,090.52	4,050.52	4,050.52	23.08	69.78	97.53	-5,559.83	5,753.94	8,085.09	7,992.33	92.76	87.165	
4,400.00	4,180.79	4,140.79	4,140.79	23.88	71.35	97.80	-5,559.83	5,753.94	8,091.43	7,996.31	95.12	85.065	
4,500.00	4,271.06	4,231.06	4,231.06	24.69	72.93	98.07	-5,559.83	5,753.94	8,098.00	8,000.51	97.48	83.069	
4,600.00	4,361.34	4,321.34	4,321.34	25.49	74.51	98.35	-5,559.83	5,753.94	8,104.79	8,004.94	99.85	81.170	
4,700.00	4,451.61	4,411.61	4,411.61	26.30	76.08	98.62	-5,559.83	5,753.94	8,111.80	8,009.59	102.22	79.360	
4,800.00	4,541.88	4,501.88	4,501.88	27.11	77.66	98.89	-5,559.83	5,753.94	8,119.04	8,014.46	104.58	77.634	
4,900.00	4,632.15	4,607.85	4,592.15	27.92	79.51	99.16	-5,559.83	5,753.94	8,126.49	8,019.27	107.22	75.792	
5,000.00	4,722.43	4,682.43	4,682.43	28.74	80.81	99.43	-5,559.83	5,753.94	8,134.17	8,024.86	109.31	74.412	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,772.70	4,772.70	29.55	82.38	99.70	-5,559.83	5,753.94	8,142.07	8,030.39	111.68	72.907	
5,200.00	4,902.97	4,862.97	4,862.97	30.37	83.96	99.97	-5,559.83	5,753.94	8,150.19	8,036.14	114.04	71.466	
5,300.00	4,993.24	4,953.24	4,953.24	31.18	85.53	100.24	-5,559.83	5,753.94	8,158.52	8,042.11	116.41	70.087	
5,400.00	5,083.51	5,043.51	5,043.51	32.00	87.11	100.51	-5,559.83	5,753.94	8,167.07	8,048.30	118.77	68.764	
5,500.00	5,173.79	5,133.79	5,133.79	32.82	88.69	100.78	-5,559.83	5,753.94	8,175.85	8,054.71	121.13	67.495	
5,600.00	5,264.06	5,224.06	5,224.06	33.63	90.26	101.05	-5,559.83	5,753.94	8,184.83	8,061.34	123.49	66.277	
5,700.00	5,354.33	5,314.33	5,314.33	34.45	91.84	101.32	-5,559.83	5,753.94	8,194.04	8,068.18	125.85	65.107	
5,800.00	5,444.60	5,404.60	5,404.60	35.27	93.41	101.58	-5,559.83	5,753.94	8,203.46	8,075.24	128.21	63.983	
5,900.00	5,534.88	5,425.00	5,425.00	36.09	93.77	101.64	-5,559.83	5,753.94	8,213.39	8,084.05	129.34	63.503	
6,000.00	5,625.15	5,425.00	5,425.00	36.91	93.77	101.64	-5,559.83	5,753.94	8,224.50	8,094.41	130.09	63.222	
6,100.00	5,715.42	5,425.00	5,425.00	37.74	93.77	101.64	-5,559.83	5,753.94	8,236.81	8,105.98	130.82	62.962	
6,200.00	5,805.69	5,425.00	5,425.00	38.56	93.77	101.64	-5,559.83	5,753.94	8,250.31	8,118.77	131.54	62.722	
6,300.00	5,895.96	5,425.00	5,425.00	39.38	93.77	101.64	-5,559.83	5,753.94	8,265.00	8,132.76	132.23	62.502	
6,400.00	5,986.24	5,425.00	5,425.00	40.20	93.77	101.64	-5,559.83	5,753.94	8,280.87	8,147.96	132.91	62.302	
6,500.00	6,076.51	5,425.00	5,425.00	41.03	93.77	101.64	-5,559.83	5,753.94	8,297.92	8,164.34	133.58	62.121	
6,600.00	6,166.78	5,425.00	5,425.00	41.85	93.77	101.64	-5,559.83	5,753.94	8,316.13	8,181.91	134.22	61.959	
6,700.00	6,257.05	5,425.00	5,425.00	42.67	93.77	101.64	-5,559.83	5,753.94	8,335.51	8,200.66	134.85	61.815	
6,800.00	6,347.33	5,425.00	5,425.00	43.50	93.77	101.64	-5,559.83	5,753.94	8,356.03	8,220.58	135.46	61.689	
6,900.00	6,437.60	5,425.00	5,425.00	44.32	93.77	101.64	-5,559.83	5,753.94	8,377.70	8,241.66	136.05	61.580	
7,000.00	6,527.87	5,425.00	5,425.00	45.15	93.77	101.64	-5,559.83	5,753.94	8,400.51	8,263.89	136.62	61.489	
7,100.00	6,618.14	5,425.00	5,425.00	45.98	93.77	101.64	-5,559.83	5,753.94	8,424.44	8,287.26	137.17	61.415	
7,200.00	6,708.41	5,425.00	5,425.00	46.80	93.77	101.64	-5,559.83	5,753.94	8,449.48	8,311.77	137.71	61.357	
7,300.00	6,798.69	5,425.00	5,425.00	47.63	93.77	101.64	-5,559.83	5,753.94	8,475.63	8,337.41	138.23	61.316	
7,400.00	6,888.96	5,425.00	5,425.00	48.45	93.77	101.64	-5,559.83	5,753.94	8,502.88	8,364.15	138.73	61.291	
7,500.00	6,979.23	5,425.00	5,425.00	49.28	93.77	101.64	-5,559.83	5,753.94	8,531.21	8,392.00	139.21	61.281	
7,600.00	7,069.50	5,425.00	5,425.00	50.11	93.77	101.64	-5,559.83	5,753.94	8,560.62	8,420.94	139.68	61.287	
7,692.09	7,152.63	5,425.00	5,425.00	50.87	93.77	101.64	-5,559.83	5,753.94	8,588.64	8,448.54	140.10	61.305	
7,700.00	7,159.79	5,425.00	5,425.00	50.93	93.77	100.57	-5,559.83	5,753.94	8,591.05	8,450.92	140.13	61.307	
7,750.00	7,205.70	5,425.00	5,425.00	51.32	93.77	92.24	-5,559.83	5,753.94	8,604.35	8,464.02	140.33	61.315	
7,800.00	7,252.52	5,425.00	5,425.00	51.66	93.77	81.03	-5,559.83	5,753.94	8,614.33	8,473.84	140.50	61.314	
7,850.00	7,299.89	5,425.00	5,425.00	51.96	93.77	67.13	-5,559.83	5,753.94	8,620.92	8,480.29	140.62	61.306	
7,900.00	7,347.44	5,425.00	5,425.00	52.20	93.77	51.93	-5,559.83	5,753.94	8,624.06	8,483.36	140.71	61.291	
7,950.00	7,394.83	5,425.00	5,425.00	52.39	93.77	37.57	-5,559.83	5,753.94	8,623.76	8,483.01	140.75	61.271	
8,000.00	7,441.68	5,425.00	5,425.00	52.53	93.77	25.50	-5,559.83	5,753.94	8,619.99	8,479.25	140.75	61.245	
8,050.00	7,487.65	5,425.00	5,425.00	52.62	93.77	15.94	-5,559.83	5,753.94	8,612.80	8,472.10	140.71	61.212	
8,100.00	7,532.37	5,425.00	5,425.00	52.67	93.77	8.44	-5,559.83	5,753.94	8,602.23	8,461.60	140.63	61.170	
8,150.00	7,575.52	5,425.00	5,425.00	52.67	93.77	2.43	-5,559.83	5,753.94	8,588.33	8,447.82	140.51	61.121	
8,200.00	7,616.76	5,425.00	5,425.00	52.63	93.77	-2.55	-5,559.83	5,753.94	8,571.22	8,430.85	140.37	61.062	
8,250.00	7,655.77	5,425.00	5,425.00	52.55	93.77	-6.89	-5,559.83	5,753.94	8,550.99	8,410.79	140.20	60.993	
8,300.00	7,692.27	5,425.00	5,425.00	52.44	93.77	-10.83	-5,559.83	5,753.94	8,527.77	8,387.78	140.00	60.914	
8,350.00	7,725.97	5,425.00	5,425.00	52.29	93.77	-14.59	-5,559.83	5,753.94	8,501.73	8,361.96	139.77	60.826	
8,400.00	7,756.62	5,425.00	5,425.00	52.12	93.77	-18.34	-5,559.83	5,753.94	8,473.03	8,333.50	139.53	60.726	
8,450.00	7,783.98	5,425.00	5,425.00	51.92	93.77	-22.20	-5,559.83	5,753.94	8,441.87	8,302.60	139.27	60.616	
8,500.00	7,807.85	5,425.00	5,425.00	51.70	93.77	-26.32	-5,559.83	5,753.94	8,408.45	8,269.46	138.99	60.495	
8,550.00	7,828.05	5,425.00	5,425.00	51.45	93.77	-30.82	-5,559.83	5,753.94	8,373.02	8,234.31	138.71	60.363	
8,600.00	7,844.41	5,425.00	5,425.00	51.20	93.77	-35.79	-5,559.83	5,753.94	8,335.80	8,197.38	138.42	60.221	
8,650.00	7,856.82	5,425.00	5,425.00	50.93	93.77	-41.34	-5,559.83	5,753.94	8,297.07	8,158.94	138.13	60.067	
8,700.00	7,865.18	5,425.00	5,425.00	50.65	93.77	-47.52	-5,559.83	5,753.94	8,257.10	8,119.26	137.84	59.903	
8,750.00	7,869.43	5,425.00	5,425.00	50.36	93.77	-54.29	-5,559.83	5,753.94	8,216.17	8,078.62	137.56	59.730	
8,776.25	7,870.00	5,425.00	5,425.00	50.21	93.77	-58.05	-5,559.83	5,753.94	8,194.40	8,056.99	137.41	59.635	
8,800.00	7,870.00	5,425.00	5,425.00	50.08	93.77	-58.05	-5,559.83	5,753.94	8,174.66	8,037.38	137.28	59.548	
8,900.00	7,870.00	5,425.00	5,425.00	49.53	93.77	-58.05	-5,559.83	5,753.94	8,091.73	7,955.01	136.72	59.183	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,425.00	5,425.00	49.01	93.77	-58.05	-5,559.83	5,753.94	8,009.19	7,873.02	136.17	58.816	
9,100.00	7,870.00	5,425.00	5,425.00	48.52	93.77	-58.05	-5,559.83	5,753.94	7,927.06	7,791.44	135.63	58.448	
9,200.00	7,870.00	5,425.00	5,425.00	48.06	93.77	-58.05	-5,559.83	5,753.94	7,845.34	7,710.26	135.08	58.078	
9,300.00	7,870.00	5,425.00	5,425.00	47.63	93.77	-58.05	-5,559.83	5,753.94	7,764.05	7,629.51	134.55	57.705	
9,400.00	7,870.00	5,425.00	5,425.00	47.22	93.77	-58.05	-5,559.83	5,753.94	7,683.20	7,549.19	134.02	57.330	
9,500.00	7,870.00	5,425.00	5,425.00	46.83	93.77	-58.05	-5,559.83	5,753.94	7,602.81	7,469.31	133.50	56.951	
9,600.00	7,870.00	5,425.00	5,425.00	46.48	93.77	-58.05	-5,559.83	5,753.94	7,522.89	7,389.90	132.99	56.568	
9,700.00	7,870.00	5,425.00	5,425.00	46.14	93.77	-58.05	-5,559.83	5,753.94	7,443.45	7,310.96	132.49	56.180	
9,800.00	7,870.00	5,425.00	5,425.00	45.83	93.77	-58.05	-5,559.83	5,753.94	7,364.51	7,232.50	132.01	55.787	
9,900.00	7,870.00	5,425.00	5,425.00	45.54	93.77	-58.05	-5,559.83	5,753.94	7,286.09	7,154.55	131.55	55.388	
10,000.00	7,870.00	5,425.00	5,425.00	45.27	93.77	-58.05	-5,559.83	5,753.94	7,208.21	7,077.11	131.10	54.982	
10,100.00	7,870.00	5,425.00	5,425.00	45.03	93.77	-58.05	-5,559.83	5,753.94	7,130.87	7,000.19	130.68	54.568	
10,200.00	7,870.00	5,425.00	5,425.00	44.82	93.77	-58.05	-5,559.83	5,753.94	7,054.11	6,923.83	130.28	54.146	
10,300.00	7,870.00	5,425.00	5,425.00	44.66	93.77	-58.05	-5,559.83	5,753.94	6,977.93	6,848.03	129.91	53.714	
10,400.00	7,870.00	5,425.00	5,425.00	44.56	93.77	-58.05	-5,559.83	5,753.94	6,902.37	6,772.80	129.57	53.272	
10,500.00	7,870.00	5,425.00	5,425.00	44.58	93.77	-58.05	-5,559.83	5,753.94	6,827.43	6,698.17	129.26	52.819	
10,600.00	7,870.00	5,425.00	5,425.00	44.82	93.77	-58.05	-5,559.83	5,753.94	6,753.14	6,624.15	128.99	52.354	
10,700.00	7,870.00	5,425.00	5,425.00	45.36	93.77	-58.05	-5,559.83	5,753.94	6,679.52	6,550.76	128.76	51.876	
10,800.00	7,870.00	5,425.00	5,425.00	46.15	93.77	-58.05	-5,559.83	5,753.94	6,606.60	6,478.02	128.57	51.385	
10,900.00	7,870.00	5,425.00	5,425.00	47.09	93.77	-58.05	-5,559.83	5,753.94	6,534.39	6,405.96	128.43	50.879	
11,000.00	7,870.00	5,425.00	5,425.00	48.13	93.77	-58.05	-5,559.83	5,753.94	6,462.92	6,334.58	128.34	50.358	
11,100.00	7,870.00	5,425.00	5,425.00	49.22	93.77	-58.05	-5,559.83	5,753.94	6,392.22	6,263.92	128.30	49.823	
11,200.00	7,870.00	5,425.00	5,425.00	50.37	93.77	-58.05	-5,559.83	5,753.94	6,322.30	6,193.99	128.32	49.271	
11,300.00	7,870.00	5,425.00	5,425.00	51.55	93.77	-58.05	-5,559.83	5,753.94	6,253.21	6,124.81	128.39	48.703	
11,400.00	7,870.00	5,425.00	5,425.00	52.76	93.77	-58.05	-5,559.83	5,753.94	6,184.96	6,056.43	128.53	48.120	
11,500.00	7,870.00	5,425.00	5,425.00	54.00	93.77	-58.05	-5,559.83	5,753.94	6,117.58	5,988.85	128.74	47.520	
11,600.00	7,870.00	5,425.00	5,425.00	55.27	93.77	-58.05	-5,559.83	5,753.94	6,051.11	5,922.10	129.01	46.905	
11,700.00	7,870.00	5,425.00	5,425.00	56.56	93.77	-58.05	-5,559.83	5,753.94	5,985.57	5,856.22	129.35	46.275	
11,800.00	7,870.00	5,425.00	5,425.00	57.88	93.77	-58.05	-5,559.83	5,753.94	5,920.99	5,791.23	129.76	45.631	
11,900.00	7,870.00	5,425.00	5,425.00	59.21	93.77	-58.05	-5,559.83	5,753.94	5,857.41	5,727.17	130.24	44.973	
12,000.00	7,870.00	5,425.00	5,425.00	60.57	93.77	-58.05	-5,559.83	5,753.94	5,794.86	5,664.06	130.80	44.303	
12,100.00	7,870.00	5,425.00	5,425.00	61.94	93.77	-58.05	-5,559.83	5,753.94	5,733.36	5,601.93	131.43	43.623	
12,200.00	7,870.00	5,425.00	5,425.00	63.33	93.77	-58.05	-5,559.83	5,753.94	5,672.97	5,540.83	132.14	42.933	
12,300.00	7,870.00	5,425.00	5,425.00	64.74	93.77	-58.05	-5,559.83	5,753.94	5,613.70	5,480.79	132.92	42.235	
12,400.00	7,870.00	5,425.00	5,425.00	66.16	93.77	-58.05	-5,559.83	5,753.94	5,555.61	5,421.84	133.77	41.531	
12,500.00	7,870.00	5,425.00	5,425.00	67.59	93.77	-58.05	-5,559.83	5,753.94	5,498.72	5,364.02	134.70	40.822	
12,600.00	7,870.00	5,425.00	5,425.00	69.04	93.77	-58.05	-5,559.83	5,753.94	5,443.07	5,307.37	135.70	40.111	
12,700.00	7,870.00	5,425.00	5,425.00	70.51	93.77	-58.05	-5,559.83	5,753.94	5,388.70	5,251.93	136.77	39.398	
12,800.00	7,870.00	5,425.00	5,425.00	71.98	93.77	-58.05	-5,559.83	5,753.94	5,335.65	5,197.74	137.92	38.687	
12,900.00	7,870.00	5,425.00	5,425.00	73.47	93.77	-58.05	-5,559.83	5,753.94	5,283.97	5,144.84	139.13	37.978	
13,000.00	7,870.00	5,425.00	5,425.00	74.96	93.77	-58.05	-5,559.83	5,753.94	5,233.68	5,093.27	140.41	37.274	
13,100.00	7,870.00	5,425.00	5,425.00	76.47	93.77	-58.05	-5,559.83	5,753.94	5,184.84	5,043.08	141.75	36.576	
13,200.00	7,870.00	5,425.00	5,425.00	77.99	93.77	-58.05	-5,559.83	5,753.94	5,137.47	4,994.31	143.16	35.886	
13,300.00	7,870.00	5,425.00	5,425.00	79.51	93.77	-58.05	-5,559.83	5,753.94	5,091.63	4,947.00	144.63	35.205	
13,400.00	7,870.00	5,425.00	5,425.00	81.05	93.77	-58.05	-5,559.83	5,753.94	5,047.36	4,901.20	146.16	34.534	
13,500.00	7,870.00	5,425.00	5,425.00	82.59	93.77	-58.05	-5,559.83	5,753.94	5,004.69	4,856.95	147.74	33.876	
13,600.00	7,870.00	5,425.00	5,425.00	84.14	93.77	-58.05	-5,559.83	5,753.94	4,963.67	4,814.30	149.37	33.230	
13,700.00	7,870.00	5,425.00	5,425.00	85.70	93.77	-58.05	-5,559.83	5,753.94	4,924.34	4,773.29	151.06	32.600	
13,800.00	7,870.00	5,425.00	5,425.00	87.26	93.77	-58.05	-5,559.83	5,753.94	4,886.74	4,733.96	152.79	31.984	
13,900.00	7,870.00	5,425.00	5,425.00	88.83	93.77	-58.05	-5,559.83	5,753.94	4,850.91	4,696.35	154.56	31.385	
14,000.00	7,870.00	5,425.00	5,425.00	90.41	93.77	-58.05	-5,559.83	5,753.94	4,816.89	4,660.52	156.37	30.804	
14,100.00	7,870.00	5,425.00	5,425.00	92.00	93.77	-58.05	-5,559.83	5,753.94	4,784.72	4,626.50	158.23	30.240	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,425.00	5,425.00	93.59	93.77	-58.05	-5,559.83	5,753.94	4,754.44	4,594.33	160.11	29.695	
14,300.00	7,870.00	5,425.00	5,425.00	95.18	93.77	-58.05	-5,559.83	5,753.94	4,726.07	4,564.05	162.03	29.169	
14,400.00	7,870.00	5,425.00	5,425.00	96.79	93.77	-58.05	-5,559.83	5,753.94	4,699.67	4,535.70	163.97	28.662	
14,500.00	7,870.00	5,425.00	5,425.00	98.39	93.77	-58.05	-5,559.83	5,753.94	4,675.25	4,509.32	165.93	28.176	
14,600.00	7,870.00	5,425.00	5,425.00	100.00	93.77	-58.05	-5,559.83	5,753.94	4,652.86	4,484.95	167.91	27.710	
14,700.00	7,870.00	5,425.00	5,425.00	101.62	93.77	-58.05	-5,559.83	5,753.94	4,632.52	4,462.61	169.91	27.265	
14,800.00	7,870.00	5,425.00	5,425.00	103.24	93.77	-58.05	-5,559.83	5,753.94	4,614.25	4,442.33	171.92	26.840	
14,900.00	7,870.00	5,425.00	5,425.00	104.87	93.77	-58.05	-5,559.83	5,753.94	4,598.09	4,424.16	173.93	26.436	
15,000.00	7,870.00	5,425.00	5,425.00	106.50	93.77	-58.05	-5,559.83	5,753.94	4,584.05	4,408.10	175.95	26.053	
15,100.00	7,870.00	5,425.00	5,425.00	108.13	93.77	-58.05	-5,559.83	5,753.94	4,572.16	4,394.19	177.97	25.691	
15,200.00	7,870.00	5,425.00	5,425.00	109.77	93.77	-58.05	-5,559.83	5,753.94	4,562.43	4,382.45	179.98	25.350	
15,300.00	7,870.00	5,425.00	5,425.00	111.41	93.77	-58.05	-5,559.83	5,753.94	4,554.87	4,372.89	181.98	25.029	
15,400.00	7,870.00	5,425.00	5,425.00	113.05	93.77	-58.05	-5,559.83	5,753.94	4,549.50	4,365.53	183.97	24.730	
15,500.00	7,870.00	5,425.00	5,425.00	114.70	93.77	-58.05	-5,559.83	5,753.94	4,546.32	4,360.38	185.94	24.450	
15,594.47	7,870.00	5,425.00	5,425.00	116.26	93.77	-58.05	-5,559.83	5,753.94	4,545.34	4,357.55	187.79	24.205	CC
15,600.00	7,870.00	5,425.00	5,425.00	116.35	93.77	-58.05	-5,559.83	5,753.94	4,545.34	4,357.45	187.90	24.191	
15,700.00	7,870.00	5,425.00	5,425.00	118.00	93.77	-58.05	-5,559.83	5,753.94	4,546.57	4,356.74	189.82	23.952	ES
15,800.00	7,870.00	5,425.00	5,425.00	119.66	93.77	-58.05	-5,559.83	5,753.94	4,549.98	4,358.26	191.72	23.732	
15,900.00	7,870.00	5,425.00	5,425.00	121.32	93.77	-58.05	-5,559.83	5,753.94	4,555.60	4,362.00	193.59	23.532	
16,000.00	7,870.00	5,425.00	5,425.00	122.98	93.77	-58.05	-5,559.83	5,753.94	4,563.39	4,367.97	195.43	23.351	
16,100.00	7,870.00	5,425.00	5,425.00	124.65	93.77	-58.05	-5,559.83	5,753.94	4,573.37	4,376.14	197.23	23.188	
16,200.00	7,870.00	5,425.00	5,425.00	126.32	93.77	-58.05	-5,559.83	5,753.94	4,585.50	4,386.51	198.99	23.044	
16,300.00	7,870.00	5,425.00	5,425.00	127.99	93.77	-58.05	-5,559.83	5,753.94	4,599.77	4,399.06	200.71	22.918	
16,400.00	7,870.00	5,425.00	5,425.00	129.66	93.77	-58.05	-5,559.83	5,753.94	4,616.17	4,413.79	202.38	22.809	
16,500.00	7,870.00	5,425.00	5,425.00	131.33	93.77	-58.05	-5,559.83	5,753.94	4,634.66	4,430.66	204.01	22.718	
16,600.00	7,870.00	5,425.00	5,425.00	133.01	93.77	-58.05	-5,559.83	5,753.94	4,655.23	4,449.65	205.59	22.644	
16,700.00	7,870.00	5,425.00	5,425.00	134.69	93.77	-58.05	-5,559.83	5,753.94	4,677.85	4,470.74	207.12	22.586	
16,800.00	7,870.00	5,425.00	5,425.00	136.37	93.77	-58.05	-5,559.83	5,753.94	4,702.49	4,493.89	208.60	22.543	
16,900.00	7,870.00	5,425.00	5,425.00	138.06	93.77	-58.05	-5,559.83	5,753.94	4,729.11	4,519.09	210.03	22.517	
17,000.00	7,870.00	5,425.00	5,425.00	139.74	93.77	-58.05	-5,559.83	5,753.94	4,757.69	4,546.29	211.40	22.506	SF
17,100.00	7,870.00	5,425.00	5,425.00	141.43	93.77	-58.05	-5,559.83	5,753.94	4,788.19	4,575.46	212.72	22.509	
17,200.00	7,870.00	5,425.00	5,425.00	143.12	93.77	-58.05	-5,559.83	5,753.94	4,820.56	4,606.57	213.99	22.527	
17,300.00	7,870.00	5,425.00	5,425.00	144.81	93.77	-58.05	-5,559.83	5,753.94	4,854.79	4,639.57	215.21	22.558	
17,400.00	7,870.00	5,425.00	5,425.00	146.50	93.77	-58.05	-5,559.83	5,753.94	4,890.81	4,674.44	216.38	22.603	
17,500.00	7,870.00	5,425.00	5,425.00	148.19	93.77	-58.05	-5,559.83	5,753.94	4,928.61	4,711.12	217.49	22.662	
17,600.00	7,870.00	5,425.00	5,425.00	149.89	93.77	-58.05	-5,559.83	5,753.94	4,968.12	4,749.58	218.55	22.733	
17,700.00	7,870.00	5,425.00	5,425.00	151.59	93.77	-58.05	-5,559.83	5,753.94	5,009.33	4,789.77	219.55	22.816	
17,800.00	7,870.00	5,425.00	5,425.00	153.29	93.77	-58.05	-5,559.83	5,753.94	5,052.17	4,831.66	220.51	22.911	
17,900.00	7,870.00	5,425.00	5,425.00	154.99	93.77	-58.05	-5,559.83	5,753.94	5,096.62	4,875.21	221.42	23.018	
18,000.00	7,870.00	5,425.00	5,425.00	156.69	93.77	-58.05	-5,559.83	5,753.94	5,142.63	4,920.36	222.28	23.136	
18,100.00	7,870.00	5,425.00	5,425.00	158.39	93.77	-58.05	-5,559.83	5,753.94	5,190.16	4,967.07	223.09	23.265	
18,200.00	7,870.00	5,425.00	5,425.00	160.09	93.77	-58.05	-5,559.83	5,753.94	5,239.17	5,015.31	223.85	23.404	
18,300.00	7,870.00	5,425.00	5,425.00	161.80	93.77	-58.05	-5,559.83	5,753.94	5,289.61	5,065.04	224.57	23.554	
18,400.00	7,870.00	5,425.00	5,425.00	163.51	93.77	-58.05	-5,559.83	5,753.94	5,341.45	5,116.20	225.25	23.713	
18,455.45	7,870.00	5,425.00	5,425.00	164.45	93.77	-58.05	-5,559.83	5,753.94	5,370.78	5,145.17	225.61	23.806	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	133.70	-4,237.74	4,434.32	6,133.75				
100.00	100.00	64.00	64.00	0.13	0.50	133.70	-4,237.74	4,434.32	6,133.64	6,133.01	0.64	9,627.707	
200.00	200.00	164.00	164.00	0.49	1.90	133.70	-4,237.74	4,434.32	6,133.64	6,131.25	2.40	2,560.690	
300.00	300.00	264.00	264.00	0.85	3.65	133.70	-4,237.74	4,434.32	6,133.64	6,129.14	4.50	1,363.302	
400.00	400.00	364.00	364.00	1.21	5.39	133.70	-4,237.74	4,434.32	6,133.64	6,127.04	6.60	928.930	
500.00	500.00	464.00	464.00	1.57	7.14	133.70	-4,237.74	4,434.32	6,133.64	6,124.94	8.71	704.473	
600.00	600.00	564.00	564.00	1.93	8.88	133.70	-4,237.74	4,434.32	6,133.64	6,122.83	10.81	567.378	
700.00	700.00	664.00	664.00	2.29	10.63	133.70	-4,237.74	4,434.32	6,133.64	6,120.73	12.91	474.949	
800.00	800.00	764.00	764.00	2.64	12.37	133.70	-4,237.74	4,434.32	6,133.64	6,118.62	15.02	408.416	
900.00	900.00	864.00	864.00	3.00	14.12	133.70	-4,237.74	4,434.32	6,133.64	6,116.52	17.12	358.233	
1,000.00	1,000.00	964.00	964.00	3.36	15.87	133.70	-4,237.74	4,434.32	6,133.64	6,114.42	19.23	319.033	
1,100.00	1,100.00	1,064.00	1,064.00	3.72	17.61	133.70	-4,237.74	4,434.32	6,133.64	6,112.31	21.33	287.566	
1,200.00	1,200.00	1,164.00	1,164.00	4.08	19.36	133.70	-4,237.74	4,434.32	6,133.64	6,110.21	23.43	261.749	
1,300.00	1,300.00	1,264.00	1,264.00	4.44	21.10	133.70	-4,237.74	4,434.32	6,133.64	6,108.11	25.54	240.185	
1,400.00	1,399.98	1,363.98	1,363.98	4.79	22.85	90.77	-4,237.74	4,434.32	6,133.67	6,106.03	27.64	221.929	
1,500.00	1,499.84	1,463.84	1,463.84	5.15	24.59	90.82	-4,237.74	4,434.32	6,133.74	6,104.00	29.74	206.278	
1,600.00	1,599.45	1,563.45	1,563.45	5.51	26.33	90.90	-4,237.74	4,434.32	6,133.87	6,102.04	31.83	192.698	
1,700.00	1,698.70	1,662.70	1,662.70	5.87	28.06	91.01	-4,237.74	4,434.32	6,134.08	6,100.15	33.93	180.799	
1,800.00	1,797.47	1,761.47	1,761.47	6.24	29.78	91.15	-4,237.74	4,434.32	6,134.37	6,098.35	36.03	170.277	
1,900.00	1,895.62	1,859.62	1,859.62	6.63	31.50	91.31	-4,237.74	4,434.32	6,134.79	6,096.66	38.13	160.897	
2,000.00	1,993.06	1,957.06	1,957.06	7.04	33.20	91.51	-4,237.74	4,434.32	6,135.36	6,095.12	40.24	152.472	
2,100.00	2,089.64	2,053.64	2,053.64	7.48	34.88	91.72	-4,237.74	4,434.32	6,136.12	6,093.75	42.36	144.855	
2,200.00	2,185.27	2,149.27	2,149.27	7.94	36.55	91.97	-4,237.74	4,434.32	6,137.10	6,092.60	44.50	137.925	
2,300.00	2,279.82	2,243.82	2,243.82	8.45	38.20	92.23	-4,237.74	4,434.32	6,138.36	6,091.71	46.65	131.589	
2,400.00	2,373.17	2,337.17	2,337.17	8.99	39.83	92.51	-4,237.74	4,434.32	6,139.95	6,091.13	48.82	125.767	
2,500.00	2,465.21	2,429.21	2,429.21	9.58	41.44	92.80	-4,237.74	4,434.32	6,141.92	6,090.90	51.01	120.397	
2,574.08	2,532.50	2,503.50	2,496.50	10.04	42.73	93.03	-4,237.74	4,434.32	6,143.65	6,090.88	52.78	116.410	
2,600.00	2,555.89	2,519.89	2,519.89	10.21	43.02	93.13	-4,237.74	4,434.32	6,144.32	6,091.09	53.23	115.429	
2,700.00	2,646.16	2,610.16	2,610.16	10.88	44.60	93.49	-4,237.74	4,434.32	6,147.06	6,091.59	55.47	110.812	
2,800.00	2,736.44	2,700.44	2,700.44	11.57	46.17	93.85	-4,237.74	4,434.32	6,150.11	6,092.38	57.74	106.521	
2,900.00	2,826.71	2,809.29	2,790.71	12.27	48.07	94.21	-4,237.74	4,434.32	6,153.46	6,093.12	60.34	101.978	
3,000.00	2,916.98	2,880.98	2,880.98	13.00	49.32	94.57	-4,237.74	4,434.32	6,157.10	6,094.79	62.31	98.812	
3,100.00	3,007.25	2,971.25	2,971.25	13.73	50.90	94.93	-4,237.74	4,434.32	6,161.05	6,096.43	64.62	95.346	
3,200.00	3,097.52	3,061.52	3,061.52	14.48	52.47	95.29	-4,237.74	4,434.32	6,165.29	6,098.36	66.93	92.110	
3,300.00	3,187.80	3,151.80	3,151.80	15.23	54.05	95.65	-4,237.74	4,434.32	6,169.83	6,100.57	69.26	89.084	
3,400.00	3,278.07	3,242.07	3,242.07	15.99	55.62	96.01	-4,237.74	4,434.32	6,174.66	6,103.07	71.59	86.251	
3,500.00	3,368.34	3,332.34	3,332.34	16.76	57.20	96.37	-4,237.74	4,434.32	6,179.79	6,105.87	73.93	83.595	
3,600.00	3,458.61	3,422.61	3,422.61	17.54	58.78	96.73	-4,237.74	4,434.32	6,185.22	6,108.95	76.27	81.100	
3,700.00	3,548.89	3,512.89	3,512.89	18.32	60.35	97.08	-4,237.74	4,434.32	6,190.94	6,112.33	78.61	78.754	
3,800.00	3,639.16	3,603.16	3,603.16	19.10	61.93	97.44	-4,237.74	4,434.32	6,196.95	6,115.99	80.96	76.544	
3,900.00	3,729.43	3,706.57	3,693.43	19.89	63.73	97.80	-4,237.74	4,434.32	6,203.26	6,119.72	83.54	74.256	
4,000.00	3,819.70	3,783.70	3,783.70	20.69	65.08	98.15	-4,237.74	4,434.32	6,209.86	6,124.20	85.66	72.493	
4,100.00	3,909.98	3,873.98	3,873.98	21.48	66.65	98.51	-4,237.74	4,434.32	6,216.75	6,128.73	88.01	70.633	
4,200.00	4,000.25	3,964.25	3,964.25	22.28	68.23	98.86	-4,237.74	4,434.32	6,223.92	6,133.55	90.37	68.872	
4,300.00	4,090.52	4,054.52	4,054.52	23.08	69.80	99.22	-4,237.74	4,434.32	6,231.39	6,138.67	92.72	67.203	
4,400.00	4,180.79	4,144.79	4,144.79	23.88	71.38	99.57	-4,237.74	4,434.32	6,239.14	6,144.06	95.08	65.620	
4,500.00	4,271.06	4,235.06	4,235.06	24.69	72.96	99.92	-4,237.74	4,434.32	6,247.19	6,149.75	97.44	64.116	
4,600.00	4,361.34	4,325.34	4,325.34	25.49	74.53	100.27	-4,237.74	4,434.32	6,255.51	6,155.72	99.79	62.686	
4,700.00	4,451.61	4,415.61	4,415.61	26.30	76.11	100.62	-4,237.74	4,434.32	6,264.12	6,161.98	102.15	61.325	
4,800.00	4,541.88	4,505.88	4,505.88	27.11	77.68	100.97	-4,237.74	4,434.32	6,273.02	6,168.52	104.50	60.029	
4,900.00	4,632.15	4,603.85	4,596.15	27.92	79.39	101.32	-4,237.74	4,434.32	6,282.20	6,175.21	106.99	58.719	
5,000.00	4,722.43	4,686.43	4,686.43	28.74	80.83	101.67	-4,237.74	4,434.32	6,291.65	6,182.45	109.21	57.613	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,776.70	4,776.70	29.55	82.41	102.02	-4,237.74	4,434.32	6,301.39	6,189.83	111.56	56.486	
5,200.00	4,902.97	4,866.97	4,866.97	30.37	83.98	102.37	-4,237.74	4,434.32	6,311.40	6,197.50	113.91	55.409	
5,300.00	4,993.24	4,957.24	4,957.24	31.18	85.56	102.71	-4,237.74	4,434.32	6,321.70	6,205.44	116.25	54.378	
5,400.00	5,083.51	5,047.51	5,047.51	32.00	87.14	103.06	-4,237.74	4,434.32	6,332.26	6,213.66	118.60	53.392	
5,500.00	5,173.79	5,137.79	5,137.79	32.82	88.71	103.40	-4,237.74	4,434.32	6,343.11	6,222.16	120.95	52.446	
5,600.00	5,264.06	5,228.06	5,228.06	33.63	90.29	103.74	-4,237.74	4,434.32	6,354.22	6,230.93	123.29	51.540	
5,700.00	5,354.33	5,318.33	5,318.33	34.45	91.86	104.09	-4,237.74	4,434.32	6,365.61	6,239.98	125.63	50.670	
5,800.00	5,444.60	5,408.60	5,408.60	35.27	93.44	104.43	-4,237.74	4,434.32	6,377.26	6,249.30	127.97	49.835	
5,900.00	5,534.88	5,450.00	5,450.00	36.09	94.16	104.58	-4,237.74	4,434.32	6,389.37	6,259.94	129.44	49.363	
6,000.00	5,625.15	5,450.00	5,450.00	36.91	94.16	104.58	-4,237.74	4,434.32	6,402.89	6,272.74	130.15	49.196	
6,100.00	5,715.42	5,450.00	5,450.00	37.74	94.16	104.58	-4,237.74	4,434.32	6,417.94	6,287.10	130.84	49.053	
6,200.00	5,805.69	5,450.00	5,450.00	38.56	94.16	104.58	-4,237.74	4,434.32	6,434.50	6,303.01	131.49	48.934	
6,300.00	5,895.96	5,450.00	5,450.00	39.38	94.16	104.58	-4,237.74	4,434.32	6,452.58	6,320.45	132.12	48.838	
6,400.00	5,986.24	5,450.00	5,450.00	40.20	94.16	104.58	-4,237.74	4,434.32	6,472.14	6,339.42	132.72	48.765	
6,500.00	6,076.51	5,450.00	5,450.00	41.03	94.16	104.58	-4,237.74	4,434.32	6,493.19	6,359.90	133.29	48.714	
6,600.00	6,166.78	5,450.00	5,450.00	41.85	94.16	104.58	-4,237.74	4,434.32	6,515.71	6,381.87	133.84	48.684	
6,700.00	6,257.05	5,450.00	5,450.00	42.67	94.16	104.58	-4,237.74	4,434.32	6,539.68	6,405.33	134.35	48.676	
6,800.00	6,347.33	5,450.00	5,450.00	43.50	94.16	104.58	-4,237.74	4,434.32	6,565.08	6,430.24	134.84	48.689	
6,900.00	6,437.60	5,450.00	5,450.00	44.32	94.16	104.58	-4,237.74	4,434.32	6,591.90	6,456.60	135.30	48.721	
7,000.00	6,527.87	5,450.00	5,450.00	45.15	94.16	104.58	-4,237.74	4,434.32	6,620.13	6,484.40	135.73	48.774	
7,100.00	6,618.14	5,450.00	5,450.00	45.98	94.16	104.58	-4,237.74	4,434.32	6,649.74	6,513.60	136.14	48.846	
7,200.00	6,708.41	5,450.00	5,450.00	46.80	94.16	104.58	-4,237.74	4,434.32	6,680.71	6,544.19	136.52	48.937	
7,300.00	6,798.69	5,450.00	5,450.00	47.63	94.16	104.58	-4,237.74	4,434.32	6,713.03	6,576.16	136.87	49.046	
7,400.00	6,888.96	5,450.00	5,450.00	48.45	94.16	104.58	-4,237.74	4,434.32	6,746.68	6,609.48	137.20	49.173	
7,500.00	6,979.23	5,450.00	5,450.00	49.28	94.16	104.58	-4,237.74	4,434.32	6,781.64	6,644.13	137.51	49.318	
7,600.00	7,069.50	5,450.00	5,450.00	50.11	94.16	104.58	-4,237.74	4,434.32	6,817.88	6,680.09	137.79	49.480	
7,692.09	7,152.63	5,450.00	5,450.00	50.87	94.16	104.58	-4,237.74	4,434.32	6,852.38	6,714.35	138.03	49.645	
7,700.00	7,159.79	5,450.00	5,450.00	50.93	94.16	103.53	-4,237.74	4,434.32	6,855.35	6,717.30	138.05	49.659	
7,750.00	7,205.70	5,450.00	5,450.00	51.32	94.16	95.34	-4,237.74	4,434.32	6,872.24	6,734.09	138.15	49.745	
7,800.00	7,252.52	5,450.00	5,450.00	51.66	94.16	84.27	-4,237.74	4,434.32	6,885.82	6,747.60	138.22	49.819	
7,850.00	7,299.89	5,450.00	5,450.00	51.96	94.16	70.51	-4,237.74	4,434.32	6,896.00	6,757.75	138.24	49.883	
7,900.00	7,347.44	5,450.00	5,450.00	52.20	94.16	55.46	-4,237.74	4,434.32	6,902.72	6,764.49	138.23	49.936	
7,950.00	7,394.83	5,450.00	5,450.00	52.39	94.16	41.27	-4,237.74	4,434.32	6,905.94	6,767.77	138.18	49.980	
8,000.00	7,441.68	5,450.00	5,450.00	52.53	94.16	29.37	-4,237.74	4,434.32	6,905.64	6,767.56	138.08	50.012	
8,050.00	7,487.65	5,450.00	5,450.00	52.62	94.16	20.01	-4,237.74	4,434.32	6,901.83	6,763.89	137.94	50.034	
8,100.00	7,532.37	5,450.00	5,450.00	52.67	94.16	12.74	-4,237.74	4,434.32	6,894.52	6,756.75	137.77	50.043	
8,150.00	7,575.52	5,450.00	5,450.00	52.67	94.16	6.99	-4,237.74	4,434.32	6,883.76	6,746.19	137.57	50.040	
8,200.00	7,616.76	5,450.00	5,450.00	52.63	94.16	2.30	-4,237.74	4,434.32	6,869.61	6,732.28	137.33	50.022	
8,250.00	7,655.77	5,450.00	5,450.00	52.55	94.16	-1.70	-4,237.74	4,434.32	6,852.17	6,715.10	137.07	49.990	
8,300.00	7,692.27	5,450.00	5,450.00	52.44	94.16	-5.25	-4,237.74	4,434.32	6,831.54	6,694.76	136.79	49.943	
8,350.00	7,725.97	5,450.00	5,450.00	52.29	94.16	-8.57	-4,237.74	4,434.32	6,807.86	6,671.37	136.48	49.880	
8,400.00	7,756.62	5,450.00	5,450.00	52.12	94.16	-11.81	-4,237.74	4,434.32	6,781.26	6,645.09	136.17	49.802	
8,450.00	7,783.98	5,450.00	5,450.00	51.92	94.16	-15.10	-4,237.74	4,434.32	6,751.91	6,616.08	135.83	49.707	
8,500.00	7,807.85	5,450.00	5,450.00	51.70	94.16	-18.56	-4,237.74	4,434.32	6,720.02	6,584.53	135.50	49.596	
8,550.00	7,828.05	5,450.00	5,450.00	51.45	94.16	-22.34	-4,237.74	4,434.32	6,685.78	6,550.63	135.15	49.468	
8,600.00	7,844.41	5,450.00	5,450.00	51.20	94.16	-26.55	-4,237.74	4,434.32	6,649.43	6,514.62	134.81	49.324	
8,650.00	7,856.82	5,450.00	5,450.00	50.93	94.16	-31.33	-4,237.74	4,434.32	6,611.20	6,476.72	134.47	49.163	
8,700.00	7,865.18	5,450.00	5,450.00	50.65	94.16	-36.81	-4,237.74	4,434.32	6,571.35	6,437.21	134.15	48.986	
8,750.00	7,869.43	5,450.00	5,450.00	50.36	94.16	-43.10	-4,237.74	4,434.32	6,530.18	6,396.34	133.83	48.793	
8,776.25	7,870.00	5,450.00	5,450.00	50.21	94.16	-46.73	-4,237.74	4,434.32	6,508.12	6,374.44	133.68	48.686	
8,800.00	7,870.00	5,450.00	5,450.00	50.08	94.16	-46.73	-4,237.74	4,434.32	6,488.06	6,354.52	133.54	48.587	
8,900.00	7,870.00	5,450.00	5,450.00	49.53	94.16	-46.73	-4,237.74	4,434.32	6,403.87	6,270.93	132.93	48.173	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,450.00	5,450.00	49.01	94.16	-46.73	-4,237.74	4,434.32	6,320.14	6,187.81	132.33	47.761	
9,100.00	7,870.00	5,450.00	5,450.00	48.52	94.16	-46.73	-4,237.74	4,434.32	6,236.89	6,105.17	131.72	47.350	
9,200.00	7,870.00	5,450.00	5,450.00	48.06	94.16	-46.73	-4,237.74	4,434.32	6,154.14	6,023.03	131.11	46.940	
9,300.00	7,870.00	5,450.00	5,450.00	47.63	94.16	-46.73	-4,237.74	4,434.32	6,071.90	5,941.41	130.49	46.531	
9,400.00	7,870.00	5,450.00	5,450.00	47.22	94.16	-46.73	-4,237.74	4,434.32	5,990.21	5,860.34	129.87	46.123	
9,500.00	7,870.00	5,450.00	5,450.00	46.83	94.16	-46.73	-4,237.74	4,434.32	5,909.08	5,779.83	129.26	45.716	
9,600.00	7,870.00	5,450.00	5,450.00	46.48	94.16	-46.73	-4,237.74	4,434.32	5,828.54	5,699.90	128.64	45.308	
9,700.00	7,870.00	5,450.00	5,450.00	46.14	94.16	-46.73	-4,237.74	4,434.32	5,748.61	5,620.58	128.03	44.900	
9,800.00	7,870.00	5,450.00	5,450.00	45.83	94.16	-46.73	-4,237.74	4,434.32	5,669.32	5,541.89	127.43	44.490	
9,900.00	7,870.00	5,450.00	5,450.00	45.54	94.16	-46.73	-4,237.74	4,434.32	5,590.69	5,463.86	126.83	44.080	
10,000.00	7,870.00	5,450.00	5,450.00	45.27	94.16	-46.73	-4,237.74	4,434.32	5,512.75	5,386.50	126.25	43.667	
10,100.00	7,870.00	5,450.00	5,450.00	45.03	94.16	-46.73	-4,237.74	4,434.32	5,435.53	5,309.86	125.67	43.251	
10,200.00	7,870.00	5,450.00	5,450.00	44.82	94.16	-46.73	-4,237.74	4,434.32	5,359.07	5,233.95	125.12	42.832	
10,300.00	7,870.00	5,450.00	5,450.00	44.66	94.16	-46.73	-4,237.74	4,434.32	5,283.40	5,158.81	124.58	42.409	
10,400.00	7,870.00	5,450.00	5,450.00	44.56	94.16	-46.73	-4,237.74	4,434.32	5,208.54	5,084.47	124.07	41.981	
10,500.00	7,870.00	5,450.00	5,450.00	44.58	94.16	-46.73	-4,237.74	4,434.32	5,134.54	5,010.96	123.59	41.546	
10,600.00	7,870.00	5,450.00	5,450.00	44.82	94.16	-46.73	-4,237.74	4,434.32	5,061.44	4,938.31	123.13	41.106	
10,700.00	7,870.00	5,450.00	5,450.00	45.36	94.16	-46.73	-4,237.74	4,434.32	4,989.27	4,866.55	122.72	40.657	
10,800.00	7,870.00	5,450.00	5,450.00	46.15	94.16	-46.73	-4,237.74	4,434.32	4,918.07	4,795.73	122.34	40.200	
10,900.00	7,870.00	5,450.00	5,450.00	47.09	94.16	-46.73	-4,237.74	4,434.32	4,847.89	4,725.88	122.01	39.734	
11,000.00	7,870.00	5,450.00	5,450.00	48.13	94.16	-46.73	-4,237.74	4,434.32	4,778.77	4,657.05	121.73	39.258	
11,100.00	7,870.00	5,450.00	5,450.00	49.22	94.16	-46.73	-4,237.74	4,434.32	4,710.76	4,589.26	121.50	38.772	
11,200.00	7,870.00	5,450.00	5,450.00	50.37	94.16	-46.73	-4,237.74	4,434.32	4,643.91	4,522.58	121.33	38.275	
11,300.00	7,870.00	5,450.00	5,450.00	51.55	94.16	-46.73	-4,237.74	4,434.32	4,578.27	4,457.04	121.23	37.766	
11,400.00	7,870.00	5,450.00	5,450.00	52.76	94.16	-46.73	-4,237.74	4,434.32	4,513.89	4,392.69	121.19	37.245	
11,500.00	7,870.00	5,450.00	5,450.00	54.00	94.16	-46.73	-4,237.74	4,434.32	4,450.82	4,329.59	121.23	36.714	
11,600.00	7,870.00	5,450.00	5,450.00	55.27	94.16	-46.73	-4,237.74	4,434.32	4,389.13	4,267.78	121.34	36.171	
11,700.00	7,870.00	5,450.00	5,450.00	56.56	94.16	-46.73	-4,237.74	4,434.32	4,328.86	4,207.32	121.54	35.618	
11,800.00	7,870.00	5,450.00	5,450.00	57.88	94.16	-46.73	-4,237.74	4,434.32	4,270.09	4,148.28	121.81	35.055	
11,900.00	7,870.00	5,450.00	5,450.00	59.21	94.16	-46.73	-4,237.74	4,434.32	4,212.87	4,090.70	122.17	34.483	
12,000.00	7,870.00	5,450.00	5,450.00	60.57	94.16	-46.73	-4,237.74	4,434.32	4,157.27	4,034.66	122.62	33.905	
12,100.00	7,870.00	5,450.00	5,450.00	61.94	94.16	-46.73	-4,237.74	4,434.32	4,103.36	3,980.21	123.15	33.320	
12,200.00	7,870.00	5,450.00	5,450.00	63.33	94.16	-46.73	-4,237.74	4,434.32	4,051.19	3,927.43	123.77	32.732	
12,300.00	7,870.00	5,450.00	5,450.00	64.74	94.16	-46.73	-4,237.74	4,434.32	4,000.85	3,876.37	124.48	32.141	
12,400.00	7,870.00	5,450.00	5,450.00	66.16	94.16	-46.73	-4,237.74	4,434.32	3,952.39	3,827.12	125.27	31.551	
12,500.00	7,870.00	5,450.00	5,450.00	67.59	94.16	-46.73	-4,237.74	4,434.32	3,905.90	3,779.75	126.15	30.962	
12,600.00	7,870.00	5,450.00	5,450.00	69.04	94.16	-46.73	-4,237.74	4,434.32	3,861.43	3,734.32	127.12	30.376	
12,700.00	7,870.00	5,450.00	5,450.00	70.51	94.16	-46.73	-4,237.74	4,434.32	3,819.07	3,690.90	128.17	29.797	
12,800.00	7,870.00	5,450.00	5,450.00	71.98	94.16	-46.73	-4,237.74	4,434.32	3,778.88	3,649.58	129.30	29.226	
12,900.00	7,870.00	5,450.00	5,450.00	73.47	94.16	-46.73	-4,237.74	4,434.32	3,740.93	3,610.42	130.51	28.665	
13,000.00	7,870.00	5,450.00	5,450.00	74.96	94.16	-46.73	-4,237.74	4,434.32	3,705.29	3,573.50	131.79	28.115	
13,100.00	7,870.00	5,450.00	5,450.00	76.47	94.16	-46.73	-4,237.74	4,434.32	3,672.03	3,538.89	133.15	27.579	
13,200.00	7,870.00	5,450.00	5,450.00	77.99	94.16	-46.73	-4,237.74	4,434.32	3,641.21	3,506.64	134.57	27.058	
13,300.00	7,870.00	5,450.00	5,450.00	79.51	94.16	-46.73	-4,237.74	4,434.32	3,612.90	3,476.84	136.06	26.554	
13,400.00	7,870.00	5,450.00	5,450.00	81.05	94.16	-46.73	-4,237.74	4,434.32	3,587.16	3,449.55	137.61	26.068	
13,500.00	7,870.00	5,450.00	5,450.00	82.59	94.16	-46.73	-4,237.74	4,434.32	3,564.03	3,424.82	139.21	25.601	
13,600.00	7,870.00	5,450.00	5,450.00	84.14	94.16	-46.73	-4,237.74	4,434.32	3,543.58	3,402.71	140.87	25.155	
13,700.00	7,870.00	5,450.00	5,450.00	85.70	94.16	-46.73	-4,237.74	4,434.32	3,525.84	3,383.27	142.57	24.730	
13,800.00	7,870.00	5,450.00	5,450.00	87.26	94.16	-46.73	-4,237.74	4,434.32	3,510.87	3,366.55	144.32	24.327	
13,900.00	7,870.00	5,450.00	5,450.00	88.83	94.16	-46.73	-4,237.74	4,434.32	3,498.69	3,352.59	146.10	23.947	
14,000.00	7,870.00	5,450.00	5,450.00	90.41	94.16	-46.73	-4,237.74	4,434.32	3,489.33	3,341.42	147.91	23.590	
14,100.00	7,870.00	5,450.00	5,450.00	92.00	94.16	-46.73	-4,237.74	4,434.32	3,482.82	3,333.07	149.75	23.258	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,450.00	5,450.00	93.59	94.16	-46.73	-4,237.74	4,434.32	3,479.18	3,327.57	151.60	22.949	
14,276.87	7,870.00	5,450.00	5,450.00	94.81	94.16	-46.73	-4,237.74	4,434.32	3,478.33	3,325.29	153.04	22.728	CC
14,300.00	7,870.00	5,450.00	5,450.00	95.18	94.16	-46.73	-4,237.74	4,434.32	3,478.41	3,324.94	153.47	22.665	ES
14,400.00	7,870.00	5,450.00	5,450.00	96.79	94.16	-46.73	-4,237.74	4,434.32	3,480.51	3,325.17	155.34	22.405	
14,500.00	7,870.00	5,450.00	5,450.00	98.39	94.16	-46.73	-4,237.74	4,434.32	3,485.48	3,328.27	157.21	22.170	
14,600.00	7,870.00	5,450.00	5,450.00	100.00	94.16	-46.73	-4,237.74	4,434.32	3,493.31	3,334.23	159.08	21.960	
14,700.00	7,870.00	5,450.00	5,450.00	101.62	94.16	-46.73	-4,237.74	4,434.32	3,503.97	3,343.05	160.93	21.774	
14,800.00	7,870.00	5,450.00	5,450.00	103.24	94.16	-46.73	-4,237.74	4,434.32	3,517.45	3,354.69	162.76	21.612	
14,900.00	7,870.00	5,450.00	5,450.00	104.87	94.16	-46.73	-4,237.74	4,434.32	3,533.70	3,369.15	164.56	21.474	
15,000.00	7,870.00	5,450.00	5,450.00	106.50	94.16	-46.73	-4,237.74	4,434.32	3,552.70	3,386.37	166.33	21.359	
15,100.00	7,870.00	5,450.00	5,450.00	108.13	94.16	-46.73	-4,237.74	4,434.32	3,574.40	3,406.33	168.07	21.268	
15,200.00	7,870.00	5,450.00	5,450.00	109.77	94.16	-46.73	-4,237.74	4,434.32	3,598.74	3,428.98	169.76	21.199	
15,300.00	7,870.00	5,450.00	5,450.00	111.41	94.16	-46.73	-4,237.74	4,434.32	3,625.68	3,454.27	171.41	21.152	
15,400.00	7,870.00	5,450.00	5,450.00	113.05	94.16	-46.73	-4,237.74	4,434.32	3,655.16	3,482.15	173.01	21.127	
15,500.00	7,870.00	5,450.00	5,450.00	114.70	94.16	-46.73	-4,237.74	4,434.32	3,687.12	3,512.56	174.55	21.123	SF
15,600.00	7,870.00	5,450.00	5,450.00	116.35	94.16	-46.73	-4,237.74	4,434.32	3,721.49	3,545.44	176.04	21.140	
15,700.00	7,870.00	5,450.00	5,450.00	118.00	94.16	-46.73	-4,237.74	4,434.32	3,758.20	3,580.73	177.47	21.176	
15,800.00	7,870.00	5,450.00	5,450.00	119.66	94.16	-46.73	-4,237.74	4,434.32	3,797.20	3,618.35	178.85	21.232	
15,900.00	7,870.00	5,450.00	5,450.00	121.32	94.16	-46.73	-4,237.74	4,434.32	3,838.40	3,658.24	180.16	21.306	
16,000.00	7,870.00	5,450.00	5,450.00	122.98	94.16	-46.73	-4,237.74	4,434.32	3,881.75	3,700.34	181.41	21.398	
16,100.00	7,870.00	5,450.00	5,450.00	124.65	94.16	-46.73	-4,237.74	4,434.32	3,927.16	3,744.56	182.60	21.507	
16,200.00	7,870.00	5,450.00	5,450.00	126.32	94.16	-46.73	-4,237.74	4,434.32	3,974.57	3,790.84	183.73	21.632	
16,300.00	7,870.00	5,450.00	5,450.00	127.99	94.16	-46.73	-4,237.74	4,434.32	4,023.91	3,839.11	184.80	21.774	
16,400.00	7,870.00	5,450.00	5,450.00	129.66	94.16	-46.73	-4,237.74	4,434.32	4,075.10	3,889.29	185.81	21.931	
16,500.00	7,870.00	5,450.00	5,450.00	131.33	94.16	-46.73	-4,237.74	4,434.32	4,128.08	3,941.32	186.77	22.103	
16,600.00	7,870.00	5,450.00	5,450.00	133.01	94.16	-46.73	-4,237.74	4,434.32	4,182.79	3,995.12	187.66	22.289	
16,700.00	7,870.00	5,450.00	5,450.00	134.69	94.16	-46.73	-4,237.74	4,434.32	4,239.14	4,050.64	188.51	22.488	
16,800.00	7,870.00	5,450.00	5,450.00	136.37	94.16	-46.73	-4,237.74	4,434.32	4,297.09	4,107.79	189.29	22.700	
16,900.00	7,870.00	5,450.00	5,450.00	138.06	94.16	-46.73	-4,237.74	4,434.32	4,356.56	4,166.52	190.03	22.925	
17,000.00	7,870.00	5,450.00	5,450.00	139.74	94.16	-46.73	-4,237.74	4,434.32	4,417.49	4,226.77	190.72	23.162	
17,100.00	7,870.00	5,450.00	5,450.00	141.43	94.16	-46.73	-4,237.74	4,434.32	4,479.83	4,288.46	191.37	23.410	
17,200.00	7,870.00	5,450.00	5,450.00	143.12	94.16	-46.73	-4,237.74	4,434.32	4,543.51	4,351.54	191.96	23.669	
17,300.00	7,870.00	5,450.00	5,450.00	144.81	94.16	-46.73	-4,237.74	4,434.32	4,608.48	4,415.96	192.52	23.938	
17,400.00	7,870.00	5,450.00	5,450.00	146.50	94.16	-46.73	-4,237.74	4,434.32	4,674.69	4,481.65	193.04	24.217	
17,500.00	7,870.00	5,450.00	5,450.00	148.19	94.16	-46.73	-4,237.74	4,434.32	4,742.08	4,548.57	193.51	24.505	
17,600.00	7,870.00	5,450.00	5,450.00	149.89	94.16	-46.73	-4,237.74	4,434.32	4,810.61	4,616.66	193.95	24.803	
17,700.00	7,870.00	5,450.00	5,450.00	151.59	94.16	-46.73	-4,237.74	4,434.32	4,880.22	4,685.87	194.36	25.109	
17,800.00	7,870.00	5,450.00	5,450.00	153.29	94.16	-46.73	-4,237.74	4,434.32	4,950.88	4,756.15	194.73	25.424	
17,900.00	7,870.00	5,450.00	5,450.00	154.99	94.16	-46.73	-4,237.74	4,434.32	5,022.53	4,827.46	195.08	25.747	
18,000.00	7,870.00	5,450.00	5,450.00	156.69	94.16	-46.73	-4,237.74	4,434.32	5,095.14	4,899.75	195.39	26.077	
18,100.00	7,870.00	5,450.00	5,450.00	158.39	94.16	-46.73	-4,237.74	4,434.32	5,168.66	4,972.99	195.68	26.414	
18,200.00	7,870.00	5,450.00	5,450.00	160.09	94.16	-46.73	-4,237.74	4,434.32	5,243.06	5,047.12	195.94	26.758	
18,300.00	7,870.00	5,450.00	5,450.00	161.80	94.16	-46.73	-4,237.74	4,434.32	5,318.30	5,122.12	196.18	27.109	
18,400.00	7,870.00	5,450.00	5,450.00	163.51	94.16	-46.73	-4,237.74	4,434.32	5,394.35	5,197.95	196.40	27.467	
18,455.45	7,870.00	5,450.00	5,450.00	164.45	94.16	-46.73	-4,237.74	4,434.32	5,436.85	5,240.34	196.51	27.667	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	141.43	-5,560.10	4,434.55	7,112.05				
100.00	100.00	65.00	65.00	0.13	0.51	141.43	-5,560.10	4,434.55	7,111.96	7,111.32	0.64	N/A	
200.00	200.00	165.00	165.00	0.49	1.92	141.43	-5,560.10	4,434.55	7,111.96	7,109.55	2.41	2,947.643	
300.00	300.00	265.00	265.00	0.85	3.67	141.43	-5,560.10	4,434.55	7,111.96	7,107.44	4.52	1,574.640	
400.00	400.00	365.00	365.00	1.21	5.41	141.43	-5,560.10	4,434.55	7,111.96	7,105.34	6.62	1,074.255	
500.00	500.00	465.00	465.00	1.57	7.16	141.43	-5,560.10	4,434.55	7,111.96	7,103.24	8.72	815.203	
600.00	600.00	565.00	565.00	1.93	8.90	141.43	-5,560.10	4,434.55	7,111.96	7,101.13	10.83	656.814	
700.00	700.00	665.00	665.00	2.29	10.65	141.43	-5,560.10	4,434.55	7,111.96	7,099.03	12.93	549.961	
800.00	800.00	765.00	765.00	2.64	12.39	141.43	-5,560.10	4,434.55	7,111.96	7,096.93	15.04	473.009	
900.00	900.00	865.00	865.00	3.00	14.14	141.43	-5,560.10	4,434.55	7,111.96	7,094.82	17.14	414.949	
1,000.00	1,000.00	965.00	965.00	3.36	15.88	141.43	-5,560.10	4,434.55	7,111.96	7,092.72	19.24	369.584	
1,100.00	1,100.00	1,065.00	1,065.00	3.72	17.63	141.43	-5,560.10	4,434.55	7,111.96	7,090.61	21.35	333.160	
1,200.00	1,200.00	1,165.00	1,165.00	4.08	19.37	141.43	-5,560.10	4,434.55	7,111.96	7,088.51	23.45	303.272	
1,300.00	1,300.00	1,265.00	1,265.00	4.44	21.12	141.43	-5,560.10	4,434.55	7,111.96	7,086.41	25.55	278.305	
1,400.00	1,399.98	1,364.98	1,364.98	4.79	22.86	98.49	-5,560.10	4,434.55	7,112.22	7,084.56	27.66	257.171	
1,500.00	1,499.84	1,464.84	1,464.84	5.15	24.61	98.52	-5,560.10	4,434.55	7,112.99	7,083.24	29.75	239.067	
1,600.00	1,599.45	1,564.45	1,564.45	5.51	26.34	98.56	-5,560.10	4,434.55	7,114.29	7,082.44	31.85	223.371	
1,700.00	1,698.70	1,663.70	1,663.70	5.87	28.08	98.62	-5,560.10	4,434.55	7,116.13	7,082.18	33.95	209.629	
1,800.00	1,797.47	1,762.47	1,762.47	6.24	29.80	98.70	-5,560.10	4,434.55	7,118.51	7,082.47	36.04	197.491	
1,900.00	1,895.62	1,860.62	1,860.62	6.63	31.51	98.79	-5,560.10	4,434.55	7,121.46	7,083.32	38.15	186.681	
2,000.00	1,993.06	1,958.06	1,958.06	7.04	33.21	98.89	-5,560.10	4,434.55	7,125.01	7,084.75	40.26	176.985	
2,100.00	2,089.64	2,054.64	2,054.64	7.48	34.90	99.01	-5,560.10	4,434.55	7,129.18	7,086.80	42.38	168.228	
2,200.00	2,185.27	2,150.27	2,150.27	7.94	36.57	99.13	-5,560.10	4,434.55	7,133.99	7,089.48	44.51	160.273	
2,300.00	2,279.82	2,244.82	2,244.82	8.45	38.22	99.27	-5,560.10	4,434.55	7,139.49	7,092.83	46.66	153.009	
2,400.00	2,373.17	2,338.17	2,338.17	8.99	39.85	99.41	-5,560.10	4,434.55	7,145.71	7,096.88	48.83	146.344	
2,500.00	2,465.21	2,430.21	2,430.21	9.58	41.46	99.56	-5,560.10	4,434.55	7,152.69	7,101.67	51.02	140.204	
2,574.08	2,532.50	2,502.50	2,497.50	10.04	42.72	99.67	-5,560.10	4,434.55	7,158.38	7,105.64	52.74	135.734	
2,600.00	2,555.89	2,520.89	2,520.89	10.21	43.04	99.75	-5,560.10	4,434.55	7,160.45	7,107.23	53.23	134.531	
2,700.00	2,646.16	2,611.16	2,611.16	10.88	44.61	100.06	-5,560.10	4,434.55	7,168.62	7,113.16	55.46	129.262	
2,800.00	2,736.44	2,701.44	2,701.44	11.57	46.19	100.36	-5,560.10	4,434.55	7,177.04	7,119.33	57.71	124.361	
2,900.00	2,826.71	2,808.29	2,791.71	12.27	48.05	100.67	-5,560.10	4,434.55	7,185.70	7,125.43	60.27	119.226	
3,000.00	2,916.98	2,881.98	2,881.98	13.00	49.34	100.97	-5,560.10	4,434.55	7,194.61	7,132.35	62.26	115.552	
3,100.00	3,007.25	2,972.25	2,972.25	13.73	50.92	101.28	-5,560.10	4,434.55	7,203.77	7,139.22	64.56	111.589	
3,200.00	3,097.52	3,062.52	3,062.52	14.48	52.49	101.58	-5,560.10	4,434.55	7,213.18	7,146.32	66.86	107.887	
3,300.00	3,187.80	3,152.80	3,152.80	15.23	54.07	101.89	-5,560.10	4,434.55	7,222.82	7,153.65	69.17	104.424	
3,400.00	3,278.07	3,243.07	3,243.07	15.99	55.64	102.19	-5,560.10	4,434.55	7,232.71	7,161.23	71.48	101.180	
3,500.00	3,368.34	3,333.34	3,333.34	16.76	57.22	102.49	-5,560.10	4,434.55	7,242.84	7,169.04	73.80	98.136	
3,600.00	3,458.61	3,423.61	3,423.61	17.54	58.79	102.79	-5,560.10	4,434.55	7,253.22	7,177.09	76.13	95.276	
3,700.00	3,548.89	3,513.89	3,513.89	18.32	60.37	103.09	-5,560.10	4,434.55	7,263.83	7,185.37	78.46	92.584	
3,800.00	3,639.16	3,604.16	3,604.16	19.10	61.94	103.39	-5,560.10	4,434.55	7,274.68	7,193.90	80.79	90.048	
3,900.00	3,729.43	3,705.57	3,694.43	19.89	63.71	103.69	-5,560.10	4,434.55	7,285.77	7,202.46	83.31	87.450	
4,000.00	3,819.70	3,784.70	3,784.70	20.69	65.10	103.99	-5,560.10	4,434.55	7,297.10	7,211.65	85.45	85.394	
4,100.00	3,909.98	3,874.98	3,874.98	21.48	66.67	104.29	-5,560.10	4,434.55	7,308.66	7,220.87	87.79	83.254	
4,200.00	4,000.25	3,965.25	3,965.25	22.28	68.25	104.58	-5,560.10	4,434.55	7,320.46	7,230.34	90.12	81.228	
4,300.00	4,090.52	4,055.52	4,055.52	23.08	69.82	104.88	-5,560.10	4,434.55	7,332.49	7,240.03	92.46	79.306	
4,400.00	4,180.79	4,145.79	4,145.79	23.88	71.40	105.17	-5,560.10	4,434.55	7,344.75	7,249.96	94.79	77.481	
4,500.00	4,271.06	4,236.06	4,236.06	24.69	72.97	105.47	-5,560.10	4,434.55	7,357.25	7,260.12	97.13	75.746	
4,600.00	4,361.34	4,326.34	4,326.34	25.49	74.55	105.76	-5,560.10	4,434.55	7,369.97	7,270.50	99.47	74.096	
4,700.00	4,451.61	4,416.61	4,416.61	26.30	76.12	106.05	-5,560.10	4,434.55	7,382.92	7,281.12	101.80	72.524	
4,800.00	4,541.88	4,506.88	4,506.88	27.11	77.70	106.35	-5,560.10	4,434.55	7,396.10	7,291.97	104.13	71.025	
4,900.00	4,632.15	4,602.85	4,597.15	27.92	79.37	106.64	-5,560.10	4,434.55	7,409.51	7,302.94	106.57	69.530	
5,000.00	4,722.43	4,687.43	4,687.43	28.74	80.85	106.93	-5,560.10	4,434.55	7,423.14	7,314.34	108.80	68.228	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,812.70	4,777.70	4,777.70	29.55	82.43	107.22	-5,560.10	4,434.55	7,437.00	7,325.87	111.13	66.922	
5,200.00	4,902.97	4,867.97	4,867.97	30.37	84.00	107.50	-5,560.10	4,434.55	7,451.07	7,337.62	113.46	65.672	
5,300.00	4,993.24	4,958.24	4,958.24	31.18	85.58	107.79	-5,560.10	4,434.55	7,465.37	7,349.59	115.79	64.476	
5,400.00	5,083.51	5,048.51	5,048.51	32.00	87.15	108.08	-5,560.10	4,434.55	7,479.89	7,361.78	118.11	63.329	
5,500.00	5,173.79	5,138.79	5,138.79	32.82	88.73	108.36	-5,560.10	4,434.55	7,494.63	7,374.20	120.44	62.229	
5,600.00	5,264.06	5,229.06	5,229.06	33.63	90.30	108.65	-5,560.10	4,434.55	7,509.59	7,386.83	122.76	61.173	
5,700.00	5,354.33	5,319.33	5,319.33	34.45	91.88	108.93	-5,560.10	4,434.55	7,524.76	7,399.68	125.08	60.160	
5,800.00	5,444.60	5,409.60	5,409.60	35.27	93.46	109.21	-5,560.10	4,434.55	7,540.15	7,412.75	127.40	59.185	
5,900.00	5,534.88	5,450.00	5,450.00	36.09	94.16	109.34	-5,560.10	4,434.55	7,555.91	7,427.08	128.83	58.650	
6,000.00	5,625.15	5,450.00	5,450.00	36.91	94.16	109.34	-5,560.10	4,434.55	7,572.86	7,443.33	129.53	58.463	
6,100.00	5,715.42	5,450.00	5,450.00	37.74	94.16	109.34	-5,560.10	4,434.55	7,591.08	7,460.87	130.21	58.299	
6,200.00	5,805.69	5,450.00	5,450.00	38.56	94.16	109.34	-5,560.10	4,434.55	7,610.58	7,479.71	130.87	58.155	
6,300.00	5,895.96	5,450.00	5,450.00	39.38	94.16	109.34	-5,560.10	4,434.55	7,631.34	7,499.83	131.51	58.031	
6,400.00	5,986.24	5,450.00	5,450.00	40.20	94.16	109.34	-5,560.10	4,434.55	7,653.34	7,521.22	132.12	57.927	
6,500.00	6,076.51	5,450.00	5,450.00	41.03	94.16	109.34	-5,560.10	4,434.55	7,676.59	7,543.87	132.72	57.842	
6,600.00	6,166.78	5,450.00	5,450.00	41.85	94.16	109.34	-5,560.10	4,434.55	7,701.06	7,567.77	133.29	57.777	
6,700.00	6,257.05	5,450.00	5,450.00	42.67	94.16	109.34	-5,560.10	4,434.55	7,726.76	7,592.91	133.84	57.730	
6,800.00	6,347.33	5,450.00	5,450.00	43.50	94.16	109.34	-5,560.10	4,434.55	7,753.65	7,619.28	134.38	57.701	
6,900.00	6,437.60	5,450.00	5,450.00	44.32	94.16	109.34	-5,560.10	4,434.55	7,781.74	7,646.85	134.89	57.690	
7,000.00	6,527.87	5,450.00	5,450.00	45.15	94.16	109.34	-5,560.10	4,434.55	7,811.01	7,675.63	135.38	57.696	
7,100.00	6,618.14	5,450.00	5,450.00	45.98	94.16	109.34	-5,560.10	4,434.55	7,841.44	7,705.59	135.85	57.720	
7,200.00	6,708.41	5,450.00	5,450.00	46.80	94.16	109.34	-5,560.10	4,434.55	7,873.03	7,736.72	136.31	57.760	
7,300.00	6,798.69	5,450.00	5,450.00	47.63	94.16	109.34	-5,560.10	4,434.55	7,905.75	7,769.01	136.74	57.816	
7,400.00	6,888.96	5,450.00	5,450.00	48.45	94.16	109.34	-5,560.10	4,434.55	7,939.60	7,802.45	137.15	57.888	
7,500.00	6,979.23	5,450.00	5,450.00	49.28	94.16	109.34	-5,560.10	4,434.55	7,974.57	7,837.02	137.55	57.976	
7,600.00	7,069.50	5,450.00	5,450.00	50.11	94.16	109.34	-5,560.10	4,434.55	8,010.62	7,872.69	137.93	58.079	
7,692.09	7,152.63	5,450.00	5,450.00	50.87	94.16	109.34	-5,560.10	4,434.55	8,044.78	7,906.52	138.26	58.187	
7,700.00	7,159.79	5,450.00	5,450.00	50.93	94.16	108.26	-5,560.10	4,434.55	8,047.71	7,909.43	138.29	58.196	
7,750.00	7,205.70	5,450.00	5,450.00	51.32	94.16	99.92	-5,560.10	4,434.55	8,064.24	7,925.80	138.44	58.250	
7,800.00	7,252.52	5,450.00	5,450.00	51.66	94.16	88.73	-5,560.10	4,434.55	8,077.25	7,938.68	138.57	58.289	
7,850.00	7,299.89	5,450.00	5,450.00	51.96	94.16	74.86	-5,560.10	4,434.55	8,086.66	7,947.99	138.67	58.316	
7,900.00	7,347.44	5,450.00	5,450.00	52.20	94.16	59.73	-5,560.10	4,434.55	8,092.40	7,953.67	138.73	58.331	
7,950.00	7,394.83	5,450.00	5,450.00	52.39	94.16	45.47	-5,560.10	4,434.55	8,094.46	7,955.70	138.76	58.335	
8,000.00	7,441.68	5,450.00	5,450.00	52.53	94.16	33.52	-5,560.10	4,434.55	8,092.80	7,954.05	138.75	58.329	
8,050.00	7,487.65	5,450.00	5,450.00	52.62	94.16	24.12	-5,560.10	4,434.55	8,087.44	7,948.74	138.70	58.310	
8,100.00	7,532.37	5,450.00	5,450.00	52.67	94.16	16.83	-5,560.10	4,434.55	8,078.42	7,939.80	138.62	58.278	
8,150.00	7,575.52	5,450.00	5,450.00	52.67	94.16	11.07	-5,560.10	4,434.55	8,065.79	7,927.28	138.51	58.233	
8,200.00	7,616.76	5,450.00	5,450.00	52.63	94.16	6.38	-5,560.10	4,434.55	8,049.63	7,911.26	138.37	58.174	
8,250.00	7,655.77	5,450.00	5,450.00	52.55	94.16	2.38	-5,560.10	4,434.55	8,030.05	7,891.84	138.21	58.101	
8,300.00	7,692.27	5,450.00	5,450.00	52.44	94.16	-1.17	-5,560.10	4,434.55	8,007.16	7,869.13	138.02	58.014	
8,350.00	7,725.97	5,450.00	5,450.00	52.29	94.16	-4.49	-5,560.10	4,434.55	7,981.11	7,843.30	137.82	57.911	
8,400.00	7,756.62	5,450.00	5,450.00	52.12	94.16	-7.74	-5,560.10	4,434.55	7,952.08	7,814.48	137.59	57.794	
8,450.00	7,783.98	5,450.00	5,450.00	51.92	94.16	-11.07	-5,560.10	4,434.55	7,920.25	7,782.89	137.36	57.661	
8,500.00	7,807.85	5,450.00	5,450.00	51.70	94.16	-14.64	-5,560.10	4,434.55	7,885.83	7,748.72	137.11	57.513	
8,550.00	7,828.05	5,450.00	5,450.00	51.45	94.16	-18.60	-5,560.10	4,434.55	7,849.05	7,712.19	136.86	57.351	
8,600.00	7,844.41	5,450.00	5,450.00	51.20	94.16	-23.13	-5,560.10	4,434.55	7,810.16	7,673.56	136.60	57.173	
8,650.00	7,856.82	5,450.00	5,450.00	50.93	94.16	-28.45	-5,560.10	4,434.55	7,769.43	7,633.08	136.35	56.982	
8,700.00	7,865.18	5,450.00	5,450.00	50.65	94.16	-34.77	-5,560.10	4,434.55	7,727.14	7,591.04	136.10	56.776	
8,750.00	7,869.43	5,450.00	5,450.00	50.36	94.16	-42.30	-5,560.10	4,434.55	7,683.59	7,547.73	135.85	56.558	
8,776.25	7,870.00	5,450.00	5,450.00	50.21	94.16	-46.78	-5,560.10	4,434.55	7,660.32	7,524.59	135.73	56.438	
8,800.00	7,870.00	5,450.00	5,450.00	50.08	94.16	-46.78	-5,560.10	4,434.55	7,639.18	7,503.56	135.62	56.328	
8,900.00	7,870.00	5,450.00	5,450.00	49.53	94.16	-46.78	-5,560.10	4,434.55	7,550.31	7,415.16	135.15	55.868	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	7,870.00	5,450.00	5,450.00	49.01	94.16	-46.78	-5,560.10	4,434.55	7,461.72	7,327.06	134.67	55.408	
9,100.00	7,870.00	5,450.00	5,450.00	48.52	94.16	-46.78	-5,560.10	4,434.55	7,373.43	7,239.24	134.19	54.949	
9,200.00	7,870.00	5,450.00	5,450.00	48.06	94.16	-46.78	-5,560.10	4,434.55	7,285.44	7,151.74	133.70	54.489	
9,300.00	7,870.00	5,450.00	5,450.00	47.63	94.16	-46.78	-5,560.10	4,434.55	7,197.76	7,064.55	133.22	54.030	
9,400.00	7,870.00	5,450.00	5,450.00	47.22	94.16	-46.78	-5,560.10	4,434.55	7,110.41	6,977.68	132.73	53.571	
9,500.00	7,870.00	5,450.00	5,450.00	46.83	94.16	-46.78	-5,560.10	4,434.55	7,023.40	6,891.16	132.24	53.111	
9,600.00	7,870.00	5,450.00	5,450.00	46.48	94.16	-46.78	-5,560.10	4,434.55	6,936.73	6,804.98	131.75	52.651	
9,700.00	7,870.00	5,450.00	5,450.00	46.14	94.16	-46.78	-5,560.10	4,434.55	6,850.43	6,719.17	131.26	52.190	
9,800.00	7,870.00	5,450.00	5,450.00	45.83	94.16	-46.78	-5,560.10	4,434.55	6,764.51	6,633.74	130.77	51.728	
9,900.00	7,870.00	5,450.00	5,450.00	45.54	94.16	-46.78	-5,560.10	4,434.55	6,678.98	6,548.69	130.29	51.264	
10,000.00	7,870.00	5,450.00	5,450.00	45.27	94.16	-46.78	-5,560.10	4,434.55	6,593.85	6,464.05	129.80	50.799	
10,100.00	7,870.00	5,450.00	5,450.00	45.03	94.16	-46.78	-5,560.10	4,434.55	6,509.15	6,379.82	129.33	50.331	
10,200.00	7,870.00	5,450.00	5,450.00	44.82	94.16	-46.78	-5,560.10	4,434.55	6,424.89	6,296.03	128.86	49.861	
10,300.00	7,870.00	5,450.00	5,450.00	44.66	94.16	-46.78	-5,560.10	4,434.55	6,341.08	6,212.69	128.39	49.388	
10,400.00	7,870.00	5,450.00	5,450.00	44.56	94.16	-46.78	-5,560.10	4,434.55	6,257.75	6,129.81	127.94	48.911	
10,500.00	7,870.00	5,450.00	5,450.00	44.58	94.16	-46.78	-5,560.10	4,434.55	6,174.92	6,047.42	127.50	48.430	
10,600.00	7,870.00	5,450.00	5,450.00	44.82	94.16	-46.78	-5,560.10	4,434.55	6,092.60	5,965.53	127.07	47.945	
10,700.00	7,870.00	5,450.00	5,450.00	45.36	94.16	-46.78	-5,560.10	4,434.55	6,010.82	5,884.15	126.67	47.454	
10,800.00	7,870.00	5,450.00	5,450.00	46.15	94.16	-46.78	-5,560.10	4,434.55	5,929.60	5,803.32	126.27	46.958	
10,900.00	7,870.00	5,450.00	5,450.00	47.09	94.16	-46.78	-5,560.10	4,434.55	5,848.95	5,723.05	125.91	46.455	
11,000.00	7,870.00	5,450.00	5,450.00	48.13	94.16	-46.78	-5,560.10	4,434.55	5,768.92	5,643.36	125.56	45.945	
11,100.00	7,870.00	5,450.00	5,450.00	49.22	94.16	-46.78	-5,560.10	4,434.55	5,689.51	5,564.27	125.24	45.427	
11,200.00	7,870.00	5,450.00	5,450.00	50.37	94.16	-46.78	-5,560.10	4,434.55	5,610.77	5,485.81	124.96	44.901	
11,300.00	7,870.00	5,450.00	5,450.00	51.55	94.16	-46.78	-5,560.10	4,434.55	5,532.71	5,408.00	124.71	44.366	
11,400.00	7,870.00	5,450.00	5,450.00	52.76	94.16	-46.78	-5,560.10	4,434.55	5,455.37	5,330.88	124.49	43.821	
11,500.00	7,870.00	5,450.00	5,450.00	54.00	94.16	-46.78	-5,560.10	4,434.55	5,378.77	5,254.45	124.32	43.267	
11,600.00	7,870.00	5,450.00	5,450.00	55.27	94.16	-46.78	-5,560.10	4,434.55	5,302.96	5,178.77	124.19	42.701	
11,700.00	7,870.00	5,450.00	5,450.00	56.56	94.16	-46.78	-5,560.10	4,434.55	5,227.95	5,103.85	124.11	42.125	
11,800.00	7,870.00	5,450.00	5,450.00	57.88	94.16	-46.78	-5,560.10	4,434.55	5,153.80	5,029.72	124.08	41.537	
11,900.00	7,870.00	5,450.00	5,450.00	59.21	94.16	-46.78	-5,560.10	4,434.55	5,080.53	4,956.43	124.10	40.939	
12,000.00	7,870.00	5,450.00	5,450.00	60.57	94.16	-46.78	-5,560.10	4,434.55	5,008.19	4,884.00	124.18	40.329	
12,100.00	7,870.00	5,450.00	5,450.00	61.94	94.16	-46.78	-5,560.10	4,434.55	4,936.81	4,812.48	124.33	39.708	
12,200.00	7,870.00	5,450.00	5,450.00	63.33	94.16	-46.78	-5,560.10	4,434.55	4,866.44	4,741.91	124.54	39.076	
12,300.00	7,870.00	5,450.00	5,450.00	64.74	94.16	-46.78	-5,560.10	4,434.55	4,797.13	4,672.31	124.81	38.435	
12,400.00	7,870.00	5,450.00	5,450.00	66.16	94.16	-46.78	-5,560.10	4,434.55	4,728.91	4,603.75	125.16	37.784	
12,500.00	7,870.00	5,450.00	5,450.00	67.59	94.16	-46.78	-5,560.10	4,434.55	4,661.84	4,536.27	125.57	37.125	
12,600.00	7,870.00	5,450.00	5,450.00	69.04	94.16	-46.78	-5,560.10	4,434.55	4,595.96	4,469.90	126.06	36.459	
12,700.00	7,870.00	5,450.00	5,450.00	70.51	94.16	-46.78	-5,560.10	4,434.55	4,531.34	4,404.72	126.62	35.787	
12,800.00	7,870.00	5,450.00	5,450.00	71.98	94.16	-46.78	-5,560.10	4,434.55	4,468.02	4,340.76	127.26	35.110	
12,900.00	7,870.00	5,450.00	5,450.00	73.47	94.16	-46.78	-5,560.10	4,434.55	4,406.06	4,278.09	127.97	34.430	
13,000.00	7,870.00	5,450.00	5,450.00	74.96	94.16	-46.78	-5,560.10	4,434.55	4,345.51	4,216.75	128.76	33.749	
13,100.00	7,870.00	5,450.00	5,450.00	76.47	94.16	-46.78	-5,560.10	4,434.55	4,286.45	4,156.83	129.62	33.068	
13,200.00	7,870.00	5,450.00	5,450.00	77.99	94.16	-46.78	-5,560.10	4,434.55	4,228.93	4,098.36	130.56	32.389	
13,300.00	7,870.00	5,450.00	5,450.00	79.51	94.16	-46.78	-5,560.10	4,434.55	4,173.00	4,041.42	131.58	31.715	
13,400.00	7,870.00	5,450.00	5,450.00	81.05	94.16	-46.78	-5,560.10	4,434.55	4,118.75	3,986.08	132.67	31.045	
13,500.00	7,870.00	5,450.00	5,450.00	82.59	94.16	-46.78	-5,560.10	4,434.55	4,066.24	3,932.41	133.83	30.384	
13,600.00	7,870.00	5,450.00	5,450.00	84.14	94.16	-46.78	-5,560.10	4,434.55	4,015.52	3,880.46	135.06	29.731	
13,700.00	7,870.00	5,450.00	5,450.00	85.70	94.16	-46.78	-5,560.10	4,434.55	3,966.68	3,830.32	136.36	29.089	
13,800.00	7,870.00	5,450.00	5,450.00	87.26	94.16	-46.78	-5,560.10	4,434.55	3,919.79	3,782.06	137.73	28.460	
13,900.00	7,870.00	5,450.00	5,450.00	88.83	94.16	-46.78	-5,560.10	4,434.55	3,874.90	3,735.74	139.16	27.844	
14,000.00	7,870.00	5,450.00	5,450.00	90.41	94.16	-46.78	-5,560.10	4,434.55	3,832.11	3,691.45	140.66	27.244	
14,100.00	7,870.00	5,450.00	5,450.00	92.00	94.16	-46.78	-5,560.10	4,434.55	3,791.46	3,649.25	142.21	26.660	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.00	7,870.00	5,450.00	5,450.00	93.59	94.16	-46.78	-5,560.10	4,434.55	3,753.05	3,609.22	143.83	26.094	
14,300.00	7,870.00	5,450.00	5,450.00	95.18	94.16	-46.78	-5,560.10	4,434.55	3,716.92	3,571.43	145.49	25.548	
14,400.00	7,870.00	5,450.00	5,450.00	96.79	94.16	-46.78	-5,560.10	4,434.55	3,683.16	3,535.95	147.20	25.021	
14,500.00	7,870.00	5,450.00	5,450.00	98.39	94.16	-46.78	-5,560.10	4,434.55	3,651.82	3,502.86	148.97	24.515	
14,600.00	7,870.00	5,450.00	5,450.00	100.00	94.16	-46.78	-5,560.10	4,434.55	3,622.98	3,472.21	150.77	24.030	
14,700.00	7,870.00	5,450.00	5,450.00	101.62	94.16	-46.78	-5,560.10	4,434.55	3,596.68	3,444.07	152.61	23.568	
14,800.00	7,870.00	5,450.00	5,450.00	103.24	94.16	-46.78	-5,560.10	4,434.55	3,572.99	3,418.51	154.49	23.128	
14,900.00	7,870.00	5,450.00	5,450.00	104.87	94.16	-46.78	-5,560.10	4,434.55	3,551.96	3,395.57	156.39	22.712	
15,000.00	7,870.00	5,450.00	5,450.00	106.50	94.16	-46.78	-5,560.10	4,434.55	3,533.64	3,375.32	158.32	22.320	
15,100.00	7,870.00	5,450.00	5,450.00	108.13	94.16	-46.78	-5,560.10	4,434.55	3,518.06	3,357.79	160.27	21.951	
15,200.00	7,870.00	5,450.00	5,450.00	109.77	94.16	-46.78	-5,560.10	4,434.55	3,505.27	3,343.04	162.23	21.607	
15,300.00	7,870.00	5,450.00	5,450.00	111.41	94.16	-46.78	-5,560.10	4,434.55	3,495.29	3,331.09	164.20	21.287	
15,400.00	7,870.00	5,450.00	5,450.00	113.05	94.16	-46.78	-5,560.10	4,434.55	3,488.15	3,321.98	166.17	20.991	
15,500.00	7,870.00	5,450.00	5,450.00	114.70	94.16	-46.78	-5,560.10	4,434.55	3,483.87	3,315.73	168.14	20.720	
15,599.23	7,870.00	5,450.00	5,450.00	116.34	94.16	-46.78	-5,560.10	4,434.55	3,482.46	3,312.37	170.09	20.474	CC
15,600.00	7,870.00	5,450.00	5,450.00	116.35	94.16	-46.78	-5,560.10	4,434.55	3,482.46	3,312.36	170.10	20.473	
15,700.00	7,870.00	5,450.00	5,450.00	118.00	94.16	-46.78	-5,560.10	4,434.55	3,483.92	3,311.87	172.05	20.250	ES
15,800.00	7,870.00	5,450.00	5,450.00	119.66	94.16	-46.78	-5,560.10	4,434.55	3,488.24	3,314.27	173.97	20.050	
15,900.00	7,870.00	5,450.00	5,450.00	121.32	94.16	-46.78	-5,560.10	4,434.55	3,495.42	3,319.55	175.87	19.875	
16,000.00	7,870.00	5,450.00	5,450.00	122.98	94.16	-46.78	-5,560.10	4,434.55	3,505.44	3,327.70	177.74	19.723	
16,100.00	7,870.00	5,450.00	5,450.00	124.65	94.16	-46.78	-5,560.10	4,434.55	3,518.28	3,338.71	179.57	19.593	
16,200.00	7,870.00	5,450.00	5,450.00	126.32	94.16	-46.78	-5,560.10	4,434.55	3,533.90	3,352.55	181.35	19.486	
16,300.00	7,870.00	5,450.00	5,450.00	127.99	94.16	-46.78	-5,560.10	4,434.55	3,552.27	3,369.18	183.09	19.402	
16,400.00	7,870.00	5,450.00	5,450.00	129.66	94.16	-46.78	-5,560.10	4,434.55	3,573.34	3,388.56	184.77	19.339	
16,500.00	7,870.00	5,450.00	5,450.00	131.33	94.16	-46.78	-5,560.10	4,434.55	3,597.07	3,410.66	186.40	19.297	
16,600.00	7,870.00	5,450.00	5,450.00	133.01	94.16	-46.78	-5,560.10	4,434.55	3,623.40	3,435.43	187.97	19.276	
16,700.00	7,870.00	5,450.00	5,450.00	134.69	94.16	-46.78	-5,560.10	4,434.55	3,652.29	3,462.81	189.48	19.275	SF
16,800.00	7,870.00	5,450.00	5,450.00	136.37	94.16	-46.78	-5,560.10	4,434.55	3,683.66	3,492.74	190.93	19.294	
16,900.00	7,870.00	5,450.00	5,450.00	138.06	94.16	-46.78	-5,560.10	4,434.55	3,717.46	3,525.16	192.30	19.331	
17,000.00	7,870.00	5,450.00	5,450.00	139.74	94.16	-46.78	-5,560.10	4,434.55	3,753.62	3,560.01	193.61	19.387	
17,100.00	7,870.00	5,450.00	5,450.00	141.43	94.16	-46.78	-5,560.10	4,434.55	3,792.07	3,597.22	194.86	19.461	
17,200.00	7,870.00	5,450.00	5,450.00	143.12	94.16	-46.78	-5,560.10	4,434.55	3,832.75	3,636.72	196.03	19.552	
17,300.00	7,870.00	5,450.00	5,450.00	144.81	94.16	-46.78	-5,560.10	4,434.55	3,875.58	3,678.45	197.14	19.660	
17,400.00	7,870.00	5,450.00	5,450.00	146.50	94.16	-46.78	-5,560.10	4,434.55	3,920.50	3,722.32	198.17	19.783	
17,500.00	7,870.00	5,450.00	5,450.00	148.19	94.16	-46.78	-5,560.10	4,434.55	3,967.42	3,768.28	199.15	19.922	
17,600.00	7,870.00	5,450.00	5,450.00	149.89	94.16	-46.78	-5,560.10	4,434.55	4,016.29	3,816.24	200.05	20.076	
17,700.00	7,870.00	5,450.00	5,450.00	151.59	94.16	-46.78	-5,560.10	4,434.55	4,067.03	3,866.13	200.90	20.244	
17,800.00	7,870.00	5,450.00	5,450.00	153.29	94.16	-46.78	-5,560.10	4,434.55	4,119.58	3,917.89	201.68	20.426	
17,900.00	7,870.00	5,450.00	5,450.00	154.99	94.16	-46.78	-5,560.10	4,434.55	4,173.85	3,971.45	202.41	20.621	
18,000.00	7,870.00	5,450.00	5,450.00	156.69	94.16	-46.78	-5,560.10	4,434.55	4,229.80	4,026.73	203.08	20.829	
18,100.00	7,870.00	5,450.00	5,450.00	158.39	94.16	-46.78	-5,560.10	4,434.55	4,287.35	4,083.66	203.69	21.048	
18,200.00	7,870.00	5,450.00	5,450.00	160.09	94.16	-46.78	-5,560.10	4,434.55	4,346.44	4,142.19	204.25	21.280	
18,300.00	7,870.00	5,450.00	5,450.00	161.80	94.16	-46.78	-5,560.10	4,434.55	4,407.00	4,202.24	204.76	21.522	
18,400.00	7,870.00	5,450.00	5,450.00	163.51	94.16	-46.78	-5,560.10	4,434.55	4,468.99	4,263.76	205.23	21.776	
18,455.45	7,870.00	5,450.00	5,450.00	164.45	94.16	-46.78	-5,560.10	4,434.55	4,503.94	4,298.48	205.47	21.921	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	126.37	-4,237.46	5,753.36	7,145.71				
100.00	100.00	37.00	37.00	0.13	0.30	126.37	-4,237.46	5,753.36	7,145.43	7,145.00	0.43	N/A	
200.00	200.00	137.00	137.00	0.49	1.45	126.37	-4,237.46	5,753.36	7,145.43	7,143.49	1.94	3,680.324	
300.00	300.00	237.00	237.00	0.85	3.19	126.37	-4,237.46	5,753.36	7,145.43	7,141.39	4.05	1,766.344	
400.00	400.00	337.00	337.00	1.21	4.94	126.37	-4,237.46	5,753.36	7,145.43	7,139.28	6.15	1,162.024	
500.00	500.00	437.00	437.00	1.57	6.68	126.37	-4,237.46	5,753.36	7,145.43	7,137.18	8.25	865.806	
600.00	600.00	537.00	537.00	1.93	8.43	126.37	-4,237.46	5,753.36	7,145.43	7,135.08	10.36	689.932	
700.00	700.00	637.00	637.00	2.29	10.18	126.37	-4,237.46	5,753.36	7,145.43	7,132.97	12.46	573.445	
800.00	800.00	737.00	737.00	2.64	11.92	126.37	-4,237.46	5,753.36	7,145.43	7,130.87	14.56	490.612	
900.00	900.00	837.00	837.00	3.00	13.67	126.37	-4,237.46	5,753.36	7,145.43	7,128.76	16.67	428.688	
1,000.00	1,000.00	937.00	937.00	3.36	15.41	126.37	-4,237.46	5,753.36	7,145.43	7,126.66	18.77	380.645	
1,100.00	1,100.00	1,037.00	1,037.00	3.72	17.16	126.37	-4,237.46	5,753.36	7,145.43	7,124.56	20.88	342.284	
1,200.00	1,200.00	1,137.00	1,137.00	4.08	18.90	126.37	-4,237.46	5,753.36	7,145.43	7,122.45	22.98	310.948	
1,300.00	1,300.00	1,237.00	1,237.00	4.44	20.65	126.37	-4,237.46	5,753.36	7,145.43	7,120.35	25.08	284.868	
1,400.00	1,399.98	1,336.98	1,336.98	4.79	22.39	83.45	-4,237.46	5,753.36	7,145.23	7,118.05	27.18	262.846	
1,500.00	1,499.84	1,436.84	1,436.84	5.15	24.14	83.50	-4,237.46	5,753.36	7,144.64	7,115.36	29.28	244.001	
1,600.00	1,599.45	1,536.45	1,536.45	5.51	25.87	83.59	-4,237.46	5,753.36	7,143.65	7,112.28	31.38	227.672	
1,700.00	1,698.70	1,635.70	1,635.70	5.87	27.61	83.71	-4,237.46	5,753.36	7,142.30	7,108.82	33.47	213.379	
1,800.00	1,797.47	1,734.47	1,734.47	6.24	29.33	83.87	-4,237.46	5,753.36	7,140.58	7,105.01	35.57	200.749	
1,900.00	1,895.62	1,832.62	1,832.62	6.63	31.04	84.06	-4,237.46	5,753.36	7,138.54	7,100.87	37.67	189.495	
2,000.00	1,993.06	1,930.06	1,930.06	7.04	32.74	84.28	-4,237.46	5,753.36	7,136.20	7,096.42	39.78	179.389	
2,100.00	2,089.64	2,026.64	2,026.64	7.48	34.43	84.53	-4,237.46	5,753.36	7,133.59	7,091.69	41.90	170.252	
2,200.00	2,185.27	2,122.27	2,122.27	7.94	36.10	84.81	-4,237.46	5,753.36	7,130.75	7,086.71	44.03	161.938	
2,300.00	2,279.82	2,216.82	2,216.82	8.45	37.75	85.12	-4,237.46	5,753.36	7,127.73	7,081.55	46.18	154.333	
2,400.00	2,373.17	2,310.17	2,310.17	8.99	39.38	85.45	-4,237.46	5,753.36	7,124.58	7,076.22	48.35	147.341	
2,500.00	2,465.21	2,402.21	2,402.21	9.58	40.98	85.80	-4,237.46	5,753.36	7,121.34	7,070.80	50.55	140.885	
2,574.08	2,532.50	2,469.50	2,469.50	10.04	42.16	86.08	-4,237.46	5,753.36	7,118.93	7,066.74	52.19	136.413	
2,600.00	2,555.89	2,507.11	2,492.89	10.21	42.81	86.16	-4,237.46	5,753.36	7,118.09	7,065.08	53.01	134.275	
2,700.00	2,646.16	2,583.16	2,583.16	10.88	44.14	86.47	-4,237.46	5,753.36	7,115.03	7,060.03	55.01	129.350	
2,800.00	2,736.44	2,673.44	2,673.44	11.57	45.72	86.78	-4,237.46	5,753.36	7,112.23	7,054.96	57.27	124.186	
2,900.00	2,826.71	2,763.71	2,763.71	12.27	47.29	87.10	-4,237.46	5,753.36	7,109.69	7,050.13	59.55	119.382	
3,000.00	2,916.98	2,853.98	2,853.98	13.00	48.87	87.41	-4,237.46	5,753.36	7,107.40	7,045.55	61.85	114.909	
3,100.00	3,007.25	2,944.25	2,944.25	13.73	50.44	87.72	-4,237.46	5,753.36	7,105.38	7,041.22	64.16	110.738	
3,200.00	3,097.52	3,034.52	3,034.52	14.48	52.02	88.04	-4,237.46	5,753.36	7,103.62	7,037.13	66.49	106.843	
3,300.00	3,187.80	3,124.80	3,124.80	15.23	53.60	88.35	-4,237.46	5,753.36	7,102.11	7,033.30	68.82	103.201	
3,400.00	3,278.07	3,215.07	3,215.07	15.99	55.17	88.66	-4,237.46	5,753.36	7,100.87	7,029.71	71.16	99.791	
3,500.00	3,368.34	3,305.34	3,305.34	16.76	56.75	88.98	-4,237.46	5,753.36	7,099.89	7,026.38	73.50	96.592	
3,600.00	3,458.61	3,404.39	3,395.61	17.54	58.48	89.29	-4,237.46	5,753.36	7,099.17	7,023.16	76.01	93.398	
3,700.00	3,548.89	3,485.89	3,485.89	18.32	59.90	89.60	-4,237.46	5,753.36	7,098.71	7,020.49	78.21	90.760	
3,800.00	3,639.16	3,576.16	3,576.16	19.10	61.47	89.92	-4,237.46	5,753.36	7,098.51	7,017.93	80.58	88.098	
3,826.86	3,663.41	3,600.41	3,600.41	19.32	61.90	90.00	-4,237.46	5,753.36	7,098.50	7,017.29	81.21	87.408	
3,900.00	3,729.43	3,666.43	3,666.43	19.89	63.05	90.23	-4,237.46	5,753.36	7,098.57	7,015.63	82.94	85.586	
4,000.00	3,819.70	3,756.70	3,756.70	20.69	64.62	90.54	-4,237.46	5,753.36	7,098.89	7,013.58	85.31	83.214	
4,100.00	3,909.98	3,846.98	3,846.98	21.48	66.20	90.86	-4,237.46	5,753.36	7,099.47	7,011.79	87.68	80.970	
4,200.00	4,000.25	3,937.25	3,937.25	22.28	67.78	91.17	-4,237.46	5,753.36	7,100.31	7,010.26	90.05	78.845	
4,300.00	4,090.52	4,027.52	4,027.52	23.08	69.35	91.48	-4,237.46	5,753.36	7,101.41	7,008.98	92.43	76.831	
4,400.00	4,180.79	4,117.79	4,117.79	23.88	70.93	91.80	-4,237.46	5,753.36	7,102.78	7,007.97	94.81	74.919	
4,500.00	4,271.06	4,208.06	4,208.06	24.69	72.50	92.11	-4,237.46	5,753.36	7,104.40	7,007.22	97.19	73.102	
4,600.00	4,361.34	4,301.66	4,298.34	25.49	74.14	92.42	-4,237.46	5,753.36	7,106.29	7,006.66	99.62	71.332	
4,700.00	4,451.61	4,388.61	4,388.61	26.30	75.65	92.74	-4,237.46	5,753.36	7,108.43	7,006.48	101.95	69.728	
4,800.00	4,541.88	4,478.88	4,478.88	27.11	77.23	93.05	-4,237.46	5,753.36	7,110.83	7,006.51	104.33	68.159	
4,900.00	4,632.15	4,569.15	4,569.15	27.92	78.80	93.36	-4,237.46	5,753.36	7,113.49	7,006.79	106.71	66.663	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,722.43	4,659.43	4,659.43	28.74	80.38	93.67	-4,237.46	5,753.36	7,116.42	7,007.33	109.09	65.234	
5,100.00	4,812.70	4,749.70	4,749.70	29.55	81.96	93.98	-4,237.46	5,753.36	7,119.60	7,008.12	111.47	63.869	
5,200.00	4,902.97	4,839.97	4,839.97	30.37	83.53	94.30	-4,237.46	5,753.36	7,123.04	7,009.18	113.85	62.563	
5,300.00	4,993.24	4,930.24	4,930.24	31.18	85.11	94.61	-4,237.46	5,753.36	7,126.73	7,010.50	116.24	61.313	
5,400.00	5,083.51	5,020.51	5,020.51	32.00	86.68	94.92	-4,237.46	5,753.36	7,130.69	7,012.07	118.62	60.115	
5,500.00	5,173.79	5,110.79	5,110.79	32.82	88.26	95.23	-4,237.46	5,753.36	7,134.90	7,013.90	121.00	58.967	
5,600.00	5,264.06	5,201.06	5,201.06	33.63	89.83	95.54	-4,237.46	5,753.36	7,139.37	7,015.99	123.38	57.865	
5,700.00	5,354.33	5,308.67	5,291.33	34.45	91.71	95.85	-4,237.46	5,753.36	7,144.09	7,018.03	126.06	56.672	
5,800.00	5,444.60	5,381.60	5,381.60	35.27	92.98	96.16	-4,237.46	5,753.36	7,149.07	7,020.94	128.14	55.792	
5,900.00	5,534.88	5,400.00	5,400.00	36.09	93.31	96.22	-4,237.46	5,753.36	7,154.67	7,025.42	129.25	55.356	
6,000.00	5,625.15	5,400.00	5,400.00	36.91	93.31	96.22	-4,237.46	5,753.36	7,161.64	7,031.62	130.02	55.083	
6,100.00	5,715.42	5,400.00	5,400.00	37.74	93.31	96.22	-4,237.46	5,753.36	7,169.99	7,039.23	130.76	54.833	
6,200.00	5,805.69	5,400.00	5,400.00	38.56	93.31	96.22	-4,237.46	5,753.36	7,179.73	7,048.24	131.48	54.605	
6,300.00	5,895.96	5,400.00	5,400.00	39.38	93.31	96.22	-4,237.46	5,753.36	7,190.84	7,058.66	132.18	54.400	
6,400.00	5,986.24	5,400.00	5,400.00	40.20	93.31	96.22	-4,237.46	5,753.36	7,203.33	7,070.47	132.86	54.217	
6,500.00	6,076.51	5,400.00	5,400.00	41.03	93.31	96.22	-4,237.46	5,753.36	7,217.18	7,083.66	133.52	54.054	
6,600.00	6,166.78	5,400.00	5,400.00	41.85	93.31	96.22	-4,237.46	5,753.36	7,232.38	7,098.23	134.15	53.913	
6,700.00	6,257.05	5,400.00	5,400.00	42.67	93.31	96.22	-4,237.46	5,753.36	7,248.94	7,114.18	134.76	53.792	
6,800.00	6,347.33	5,400.00	5,400.00	43.50	93.31	96.22	-4,237.46	5,753.36	7,266.83	7,131.49	135.34	53.692	
6,900.00	6,437.60	5,400.00	5,400.00	44.32	93.31	96.22	-4,237.46	5,753.36	7,286.05	7,150.14	135.91	53.611	
7,000.00	6,527.87	5,400.00	5,400.00	45.15	93.31	96.22	-4,237.46	5,753.36	7,306.59	7,170.14	136.45	53.549	
7,100.00	6,618.14	5,400.00	5,400.00	45.98	93.31	96.22	-4,237.46	5,753.36	7,328.44	7,191.47	136.96	53.506	
7,200.00	6,708.41	5,400.00	5,400.00	46.80	93.31	96.22	-4,237.46	5,753.36	7,351.58	7,214.12	137.46	53.482	
7,300.00	6,798.69	5,400.00	5,400.00	47.63	93.31	96.22	-4,237.46	5,753.36	7,376.00	7,238.07	137.93	53.476	
7,400.00	6,888.96	5,400.00	5,400.00	48.45	93.31	96.22	-4,237.46	5,753.36	7,401.70	7,263.32	138.38	53.487	
7,500.00	6,979.23	5,400.00	5,400.00	49.28	93.31	96.22	-4,237.46	5,753.36	7,428.65	7,289.84	138.81	53.516	
7,600.00	7,069.50	5,400.00	5,400.00	50.11	93.31	96.22	-4,237.46	5,753.36	7,456.85	7,317.63	139.22	53.563	
7,692.09	7,152.63	5,400.00	5,400.00	50.87	93.31	96.22	-4,237.46	5,753.36	7,483.90	7,344.33	139.57	53.620	
7,700.00	7,159.79	5,400.00	5,400.00	50.93	93.31	95.16	-4,237.46	5,753.36	7,486.23	7,346.63	139.60	53.625	
7,750.00	7,205.70	5,400.00	5,400.00	51.32	93.31	86.92	-4,237.46	5,753.36	7,499.22	7,359.46	139.76	53.656	
7,800.00	7,252.52	5,400.00	5,400.00	51.66	93.31	75.78	-4,237.46	5,753.36	7,509.14	7,369.26	139.88	53.681	
7,850.00	7,299.89	5,400.00	5,400.00	51.96	93.31	61.95	-4,237.46	5,753.36	7,515.93	7,375.98	139.96	53.701	
7,900.00	7,347.44	5,400.00	5,400.00	52.20	93.31	46.80	-4,237.46	5,753.36	7,519.55	7,379.56	139.98	53.717	
7,950.00	7,394.83	5,400.00	5,400.00	52.39	93.31	32.48	-4,237.46	5,753.36	7,519.97	7,380.00	139.96	53.728	
8,000.00	7,441.68	5,400.00	5,400.00	52.53	93.31	20.44	-4,237.46	5,753.36	7,517.18	7,377.29	139.89	53.735	
8,050.00	7,487.65	5,400.00	5,400.00	52.62	93.31	10.89	-4,237.46	5,753.36	7,511.22	7,371.43	139.78	53.735	
8,100.00	7,532.37	5,400.00	5,400.00	52.67	93.31	3.41	-4,237.46	5,753.36	7,502.10	7,362.47	139.63	53.729	
8,150.00	7,575.52	5,400.00	5,400.00	52.67	93.31	-2.58	-4,237.46	5,753.36	7,489.90	7,350.47	139.44	53.714	
8,200.00	7,616.76	5,400.00	5,400.00	52.63	93.31	-7.56	-4,237.46	5,753.36	7,474.70	7,335.48	139.22	53.692	
8,250.00	7,655.77	5,400.00	5,400.00	52.55	93.31	-11.88	-4,237.46	5,753.36	7,456.58	7,317.62	138.96	53.659	
8,300.00	7,692.27	5,400.00	5,400.00	52.44	93.31	-15.79	-4,237.46	5,753.36	7,435.66	7,296.98	138.68	53.618	
8,350.00	7,725.97	5,400.00	5,400.00	52.29	93.31	-19.50	-4,237.46	5,753.36	7,412.09	7,273.72	138.37	53.566	
8,400.00	7,756.62	5,400.00	5,400.00	52.12	93.31	-23.15	-4,237.46	5,753.36	7,386.02	7,247.97	138.05	53.503	
8,450.00	7,783.98	5,400.00	5,400.00	51.92	93.31	-26.87	-4,237.46	5,753.36	7,357.61	7,219.90	137.71	53.429	
8,500.00	7,807.85	5,400.00	5,400.00	51.70	93.31	-30.75	-4,237.46	5,753.36	7,327.07	7,189.71	137.36	53.343	
8,550.00	7,828.05	5,400.00	5,400.00	51.45	93.31	-34.88	-4,237.46	5,753.36	7,294.59	7,157.59	137.00	53.245	
8,600.00	7,844.41	5,400.00	5,400.00	51.20	93.31	-39.34	-4,237.46	5,753.36	7,260.41	7,123.77	136.64	53.135	
8,650.00	7,856.82	5,400.00	5,400.00	50.93	93.31	-44.16	-4,237.46	5,753.36	7,224.75	7,088.47	136.28	53.014	
8,700.00	7,865.18	5,400.00	5,400.00	50.65	93.31	-49.38	-4,237.46	5,753.36	7,187.87	7,051.94	135.93	52.880	
8,750.00	7,869.43	5,400.00	5,400.00	50.36	93.31	-54.95	-4,237.46	5,753.36	7,150.04	7,014.45	135.59	52.734	
8,776.25	7,870.00	5,400.00	5,400.00	50.21	93.31	-58.00	-4,237.46	5,753.36	7,129.88	6,994.47	135.41	52.653	
8,800.00	7,870.00	5,400.00	5,400.00	50.08	93.31	-58.00	-4,237.46	5,753.36	7,111.59	6,976.33	135.26	52.578	

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,900.00	7,870.00	5,400.00	5,400.00	49.53	93.31	-58.00	-4,237.46	5,753.36	7,034.93	6,900.33	134.60	52.264	
9,000.00	7,870.00	5,400.00	5,400.00	49.01	93.31	-58.00	-4,237.46	5,753.36	6,958.87	6,824.92	133.96	51.949	
9,100.00	7,870.00	5,400.00	5,400.00	48.52	93.31	-58.00	-4,237.46	5,753.36	6,883.42	6,750.10	133.31	51.633	
9,200.00	7,870.00	5,400.00	5,400.00	48.06	93.31	-58.00	-4,237.46	5,753.36	6,808.60	6,675.92	132.68	51.315	
9,300.00	7,870.00	5,400.00	5,400.00	47.63	93.31	-58.00	-4,237.46	5,753.36	6,734.43	6,602.37	132.06	50.994	
9,400.00	7,870.00	5,400.00	5,400.00	47.22	93.31	-58.00	-4,237.46	5,753.36	6,660.94	6,529.49	131.46	50.669	
9,500.00	7,870.00	5,400.00	5,400.00	46.83	93.31	-58.00	-4,237.46	5,753.36	6,588.15	6,457.28	130.87	50.341	
9,600.00	7,870.00	5,400.00	5,400.00	46.48	93.31	-58.00	-4,237.46	5,753.36	6,516.08	6,385.78	130.30	50.007	
9,700.00	7,870.00	5,400.00	5,400.00	46.14	93.31	-58.00	-4,237.46	5,753.36	6,444.76	6,315.00	129.76	49.667	
9,800.00	7,870.00	5,400.00	5,400.00	45.83	93.31	-58.00	-4,237.46	5,753.36	6,374.20	6,244.96	129.24	49.321	
9,900.00	7,870.00	5,400.00	5,400.00	45.54	93.31	-58.00	-4,237.46	5,753.36	6,304.45	6,175.70	128.75	48.966	
10,000.00	7,870.00	5,400.00	5,400.00	45.27	93.31	-58.00	-4,237.46	5,753.36	6,235.51	6,107.22	128.30	48.602	
10,100.00	7,870.00	5,400.00	5,400.00	45.03	93.31	-58.00	-4,237.46	5,753.36	6,167.43	6,039.55	127.88	48.227	
10,200.00	7,870.00	5,400.00	5,400.00	44.82	93.31	-58.00	-4,237.46	5,753.36	6,100.23	5,972.72	127.51	47.841	
10,300.00	7,870.00	5,400.00	5,400.00	44.66	93.31	-58.00	-4,237.46	5,753.36	6,033.93	5,906.75	127.18	47.443	
10,400.00	7,870.00	5,400.00	5,400.00	44.56	93.31	-58.00	-4,237.46	5,753.36	5,968.58	5,841.67	126.91	47.031	
10,500.00	7,870.00	5,400.00	5,400.00	44.58	93.31	-58.00	-4,237.46	5,753.36	5,904.19	5,777.51	126.69	46.605	
10,600.00	7,870.00	5,400.00	5,400.00	44.82	93.31	-58.00	-4,237.46	5,753.36	5,840.81	5,714.29	126.52	46.164	
10,700.00	7,870.00	5,400.00	5,400.00	45.36	93.31	-58.00	-4,237.46	5,753.36	5,778.47	5,652.04	126.43	45.707	
10,800.00	7,870.00	5,400.00	5,400.00	46.15	93.31	-58.00	-4,237.46	5,753.36	5,717.19	5,590.79	126.39	45.233	
10,900.00	7,870.00	5,400.00	5,400.00	47.09	93.31	-58.00	-4,237.46	5,753.36	5,657.02	5,530.58	126.43	44.743	
11,000.00	7,870.00	5,400.00	5,400.00	48.13	93.31	-58.00	-4,237.46	5,753.36	5,597.98	5,471.43	126.55	44.235	
11,100.00	7,870.00	5,400.00	5,400.00	49.22	93.31	-58.00	-4,237.46	5,753.36	5,540.12	5,413.38	126.74	43.712	
11,200.00	7,870.00	5,400.00	5,400.00	50.37	93.31	-58.00	-4,237.46	5,753.36	5,483.48	5,356.47	127.01	43.172	
11,300.00	7,870.00	5,400.00	5,400.00	51.55	93.31	-58.00	-4,237.46	5,753.36	5,428.09	5,300.72	127.37	42.617	
11,400.00	7,870.00	5,400.00	5,400.00	52.76	93.31	-58.00	-4,237.46	5,753.36	5,373.98	5,246.18	127.81	42.048	
11,500.00	7,870.00	5,400.00	5,400.00	54.00	93.31	-58.00	-4,237.46	5,753.36	5,321.21	5,192.88	128.33	41.466	
11,600.00	7,870.00	5,400.00	5,400.00	55.27	93.31	-58.00	-4,237.46	5,753.36	5,269.81	5,140.87	128.93	40.872	
11,700.00	7,870.00	5,400.00	5,400.00	56.56	93.31	-58.00	-4,237.46	5,753.36	5,219.81	5,090.18	129.63	40.268	
11,800.00	7,870.00	5,400.00	5,400.00	57.88	93.31	-58.00	-4,237.46	5,753.36	5,171.27	5,040.86	130.40	39.656	
11,900.00	7,870.00	5,400.00	5,400.00	59.21	93.31	-58.00	-4,237.46	5,753.36	5,124.21	4,992.95	131.26	39.038	
12,000.00	7,870.00	5,400.00	5,400.00	60.57	93.31	-58.00	-4,237.46	5,753.36	5,078.70	4,946.49	132.20	38.416	
12,100.00	7,870.00	5,400.00	5,400.00	61.94	93.31	-58.00	-4,237.46	5,753.36	5,034.75	4,901.53	133.22	37.793	
12,200.00	7,870.00	5,400.00	5,400.00	63.33	93.31	-58.00	-4,237.46	5,753.36	4,992.42	4,858.11	134.32	37.169	
12,300.00	7,870.00	5,400.00	5,400.00	64.74	93.31	-58.00	-4,237.46	5,753.36	4,951.76	4,816.27	135.49	36.547	
12,400.00	7,870.00	5,400.00	5,400.00	66.16	93.31	-58.00	-4,237.46	5,753.36	4,912.78	4,776.05	136.73	35.930	
12,500.00	7,870.00	5,400.00	5,400.00	67.59	93.31	-58.00	-4,237.46	5,753.36	4,875.55	4,737.51	138.04	35.319	
12,600.00	7,870.00	5,400.00	5,400.00	69.04	93.31	-58.00	-4,237.46	5,753.36	4,840.10	4,700.68	139.42	34.716	
12,700.00	7,870.00	5,400.00	5,400.00	70.51	93.31	-58.00	-4,237.46	5,753.36	4,806.47	4,665.62	140.86	34.123	
12,800.00	7,870.00	5,400.00	5,400.00	71.98	93.31	-58.00	-4,237.46	5,753.36	4,774.70	4,632.35	142.35	33.541	
12,900.00	7,870.00	5,400.00	5,400.00	73.47	93.31	-58.00	-4,237.46	5,753.36	4,744.82	4,600.92	143.90	32.972	
13,000.00	7,870.00	5,400.00	5,400.00	74.96	93.31	-58.00	-4,237.46	5,753.36	4,716.87	4,571.37	145.50	32.418	
13,100.00	7,870.00	5,400.00	5,400.00	76.47	93.31	-58.00	-4,237.46	5,753.36	4,690.89	4,543.75	147.15	31.879	
13,200.00	7,870.00	5,400.00	5,400.00	77.99	93.31	-58.00	-4,237.46	5,753.36	4,666.91	4,518.08	148.83	31.357	
13,300.00	7,870.00	5,400.00	5,400.00	79.51	93.31	-58.00	-4,237.46	5,753.36	4,644.96	4,494.40	150.56	30.852	
13,400.00	7,870.00	5,400.00	5,400.00	81.05	93.31	-58.00	-4,237.46	5,753.36	4,625.06	4,472.75	152.31	30.365	
13,500.00	7,870.00	5,400.00	5,400.00	82.59	93.31	-58.00	-4,237.46	5,753.36	4,607.25	4,453.15	154.10	29.898	
13,600.00	7,870.00	5,400.00	5,400.00	84.14	93.31	-58.00	-4,237.46	5,753.36	4,591.55	4,435.64	155.91	29.450	
13,700.00	7,870.00	5,400.00	5,400.00	85.70	93.31	-58.00	-4,237.46	5,753.36	4,577.98	4,420.24	157.74	29.022	
13,800.00	7,870.00	5,400.00	5,400.00	87.26	93.31	-58.00	-4,237.46	5,753.36	4,566.56	4,406.98	159.59	28.615	
13,900.00	7,870.00	5,400.00	5,400.00	88.83	93.31	-58.00	-4,237.46	5,753.36	4,557.31	4,395.87	161.44	28.228	
14,000.00	7,870.00	5,400.00	5,400.00	90.41	93.31	-58.00	-4,237.46	5,753.36	4,550.24	4,386.93	163.31	27.863	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1

Offset Site Error: 0.00 usft

Survey Program: 0-INC-ONLY

Offset Well Error: 0.00 usft

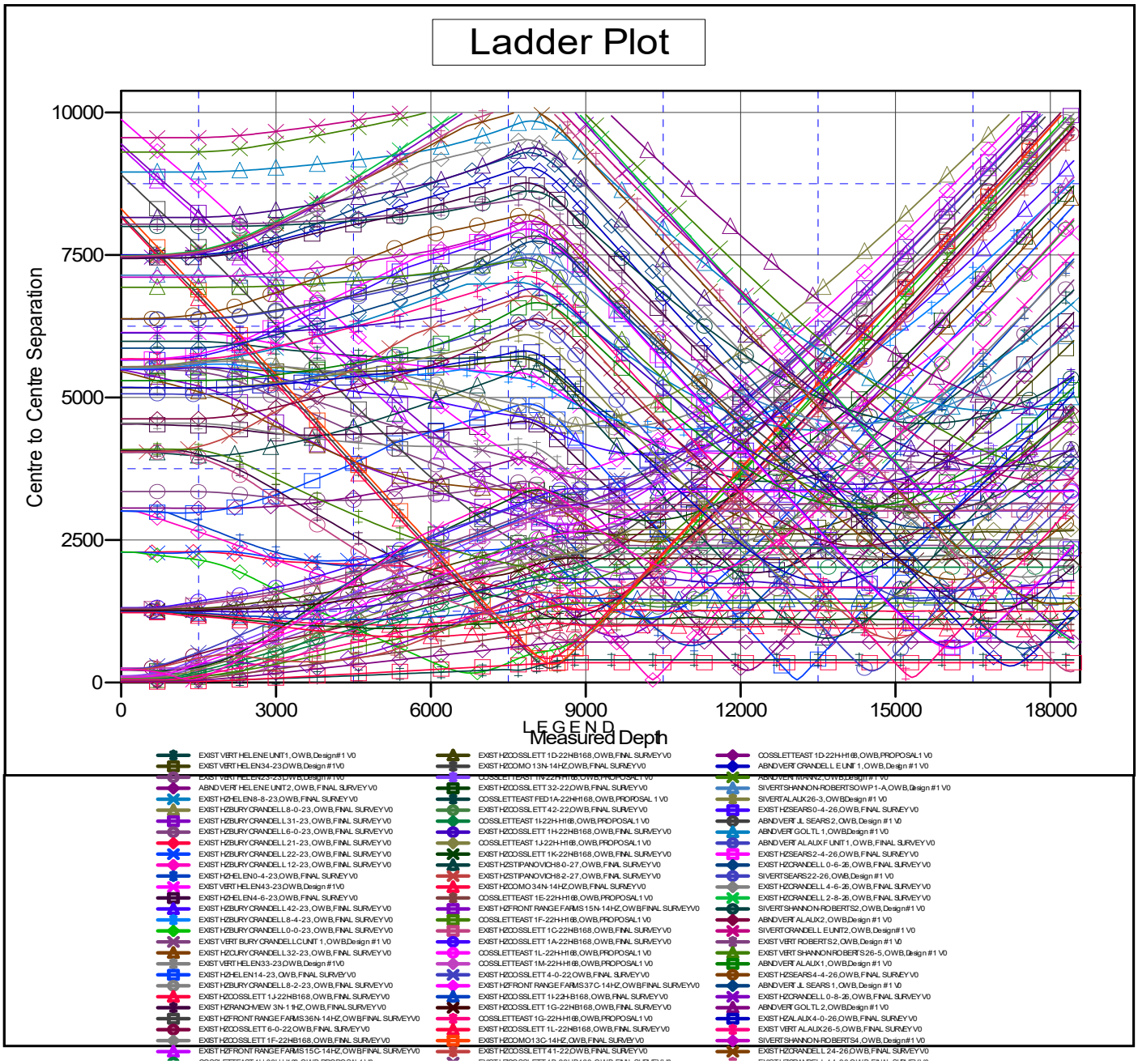
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,870.00	5,400.00	5,400.00	92.00	93.31	-58.00	-4,237.46	5,753.36	4,545.35	4,380.18	165.17	27.518	
14,200.00	7,870.00	5,400.00	5,400.00	93.59	93.31	-58.00	-4,237.46	5,753.36	4,542.67	4,375.63	167.04	27.195	
14,272.12	7,870.00	5,400.00	5,400.00	94.74	93.31	-58.00	-4,237.46	5,753.36	4,542.09	4,373.71	168.38	26.975	CC
14,300.00	7,870.00	5,400.00	5,400.00	95.18	93.31	-58.00	-4,237.46	5,753.36	4,542.18	4,373.28	168.90	26.893	
14,400.00	7,870.00	5,400.00	5,400.00	96.79	93.31	-58.00	-4,237.46	5,753.36	4,543.89	4,373.14	170.75	26.611	ES
14,500.00	7,870.00	5,400.00	5,400.00	98.39	93.31	-58.00	-4,237.46	5,753.36	4,547.81	4,375.22	172.59	26.351	
14,600.00	7,870.00	5,400.00	5,400.00	100.00	93.31	-58.00	-4,237.46	5,753.36	4,553.91	4,379.50	174.41	26.111	
14,700.00	7,870.00	5,400.00	5,400.00	101.62	93.31	-58.00	-4,237.46	5,753.36	4,562.20	4,386.00	176.21	25.891	
14,800.00	7,870.00	5,400.00	5,400.00	103.24	93.31	-58.00	-4,237.46	5,753.36	4,572.67	4,394.68	177.98	25.692	
14,900.00	7,870.00	5,400.00	5,400.00	104.87	93.31	-58.00	-4,237.46	5,753.36	4,585.29	4,405.55	179.73	25.512	
15,000.00	7,870.00	5,400.00	5,400.00	106.50	93.31	-58.00	-4,237.46	5,753.36	4,600.05	4,418.59	181.45	25.351	
15,100.00	7,870.00	5,400.00	5,400.00	108.13	93.31	-58.00	-4,237.46	5,753.36	4,616.92	4,433.79	183.14	25.210	
15,200.00	7,870.00	5,400.00	5,400.00	109.77	93.31	-58.00	-4,237.46	5,753.36	4,635.90	4,451.11	184.79	25.088	
15,300.00	7,870.00	5,400.00	5,400.00	111.41	93.31	-58.00	-4,237.46	5,753.36	4,656.95	4,470.54	186.40	24.983	
15,400.00	7,870.00	5,400.00	5,400.00	113.05	93.31	-58.00	-4,237.46	5,753.36	4,680.03	4,492.06	187.98	24.897	
15,500.00	7,870.00	5,400.00	5,400.00	114.70	93.31	-58.00	-4,237.46	5,753.36	4,705.14	4,515.62	189.51	24.828	
15,600.00	7,870.00	5,400.00	5,400.00	116.35	93.31	-58.00	-4,237.46	5,753.36	4,732.22	4,541.21	191.00	24.775	
15,700.00	7,870.00	5,400.00	5,400.00	118.00	93.31	-58.00	-4,237.46	5,753.36	4,761.24	4,568.79	192.45	24.740	
15,800.00	7,870.00	5,400.00	5,400.00	119.66	93.31	-58.00	-4,237.46	5,753.36	4,792.18	4,598.33	193.86	24.720	
15,900.00	7,870.00	5,400.00	5,400.00	121.32	93.31	-58.00	-4,237.46	5,753.36	4,825.00	4,629.78	195.22	24.716	SF
16,000.00	7,870.00	5,400.00	5,400.00	122.98	93.31	-58.00	-4,237.46	5,753.36	4,859.65	4,663.12	196.53	24.728	
16,100.00	7,870.00	5,400.00	5,400.00	124.65	93.31	-58.00	-4,237.46	5,753.36	4,896.10	4,698.30	197.79	24.754	
16,200.00	7,870.00	5,400.00	5,400.00	126.32	93.31	-58.00	-4,237.46	5,753.36	4,934.30	4,735.29	199.01	24.794	
16,300.00	7,870.00	5,400.00	5,400.00	127.99	93.31	-58.00	-4,237.46	5,753.36	4,974.22	4,774.04	200.19	24.848	
16,400.00	7,870.00	5,400.00	5,400.00	129.66	93.31	-58.00	-4,237.46	5,753.36	5,015.82	4,814.51	201.31	24.915	
16,500.00	7,870.00	5,400.00	5,400.00	131.33	93.31	-58.00	-4,237.46	5,753.36	5,059.06	4,856.66	202.40	24.996	
16,600.00	7,870.00	5,400.00	5,400.00	133.01	93.31	-58.00	-4,237.46	5,753.36	5,103.88	4,900.45	203.43	25.089	
16,700.00	7,870.00	5,400.00	5,400.00	134.69	93.31	-58.00	-4,237.46	5,753.36	5,150.26	4,945.84	204.42	25.194	
16,800.00	7,870.00	5,400.00	5,400.00	136.37	93.31	-58.00	-4,237.46	5,753.36	5,198.15	4,992.78	205.37	25.311	
16,900.00	7,870.00	5,400.00	5,400.00	138.06	93.31	-58.00	-4,237.46	5,753.36	5,247.51	5,041.23	206.28	25.439	
17,000.00	7,870.00	5,400.00	5,400.00	139.74	93.31	-58.00	-4,237.46	5,753.36	5,298.30	5,091.16	207.14	25.578	
17,100.00	7,870.00	5,400.00	5,400.00	141.43	93.31	-58.00	-4,237.46	5,753.36	5,350.47	5,142.51	207.96	25.728	
17,200.00	7,870.00	5,400.00	5,400.00	143.12	93.31	-58.00	-4,237.46	5,753.36	5,403.99	5,195.25	208.74	25.888	
17,300.00	7,870.00	5,400.00	5,400.00	144.81	93.31	-58.00	-4,237.46	5,753.36	5,458.81	5,249.33	209.49	26.058	
17,400.00	7,870.00	5,400.00	5,400.00	146.50	93.31	-58.00	-4,237.46	5,753.36	5,514.91	5,304.72	210.19	26.238	
17,500.00	7,870.00	5,400.00	5,400.00	148.19	93.31	-58.00	-4,237.46	5,753.36	5,572.24	5,361.38	210.86	26.426	
17,600.00	7,870.00	5,400.00	5,400.00	149.89	93.31	-58.00	-4,237.46	5,753.36	5,630.75	5,419.26	211.49	26.624	
17,700.00	7,870.00	5,400.00	5,400.00	151.59	93.31	-58.00	-4,237.46	5,753.36	5,690.43	5,478.34	212.09	26.830	
17,800.00	7,870.00	5,400.00	5,400.00	153.29	93.31	-58.00	-4,237.46	5,753.36	5,751.22	5,538.56	212.66	27.045	
17,900.00	7,870.00	5,400.00	5,400.00	154.99	93.31	-58.00	-4,237.46	5,753.36	5,813.10	5,599.91	213.19	27.267	
18,000.00	7,870.00	5,400.00	5,400.00	156.69	93.31	-58.00	-4,237.46	5,753.36	5,876.03	5,662.33	213.70	27.497	
18,100.00	7,870.00	5,400.00	5,400.00	158.39	93.31	-58.00	-4,237.46	5,753.36	5,939.97	5,725.80	214.17	27.735	
18,200.00	7,870.00	5,400.00	5,400.00	160.09	93.31	-58.00	-4,237.46	5,753.36	6,004.90	5,790.28	214.62	27.979	
18,300.00	7,870.00	5,400.00	5,400.00	161.80	93.31	-58.00	-4,237.46	5,753.36	6,070.78	5,855.74	215.04	28.231	
18,400.00	7,870.00	5,400.00	5,400.00	163.51	93.31	-58.00	-4,237.46	5,753.36	6,137.59	5,922.15	215.43	28.489	
18,455.45	7,870.00	5,400.00	5,400.00	164.45	93.31	-58.00	-4,237.46	5,753.36	6,175.02	5,959.38	215.64	28.635	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

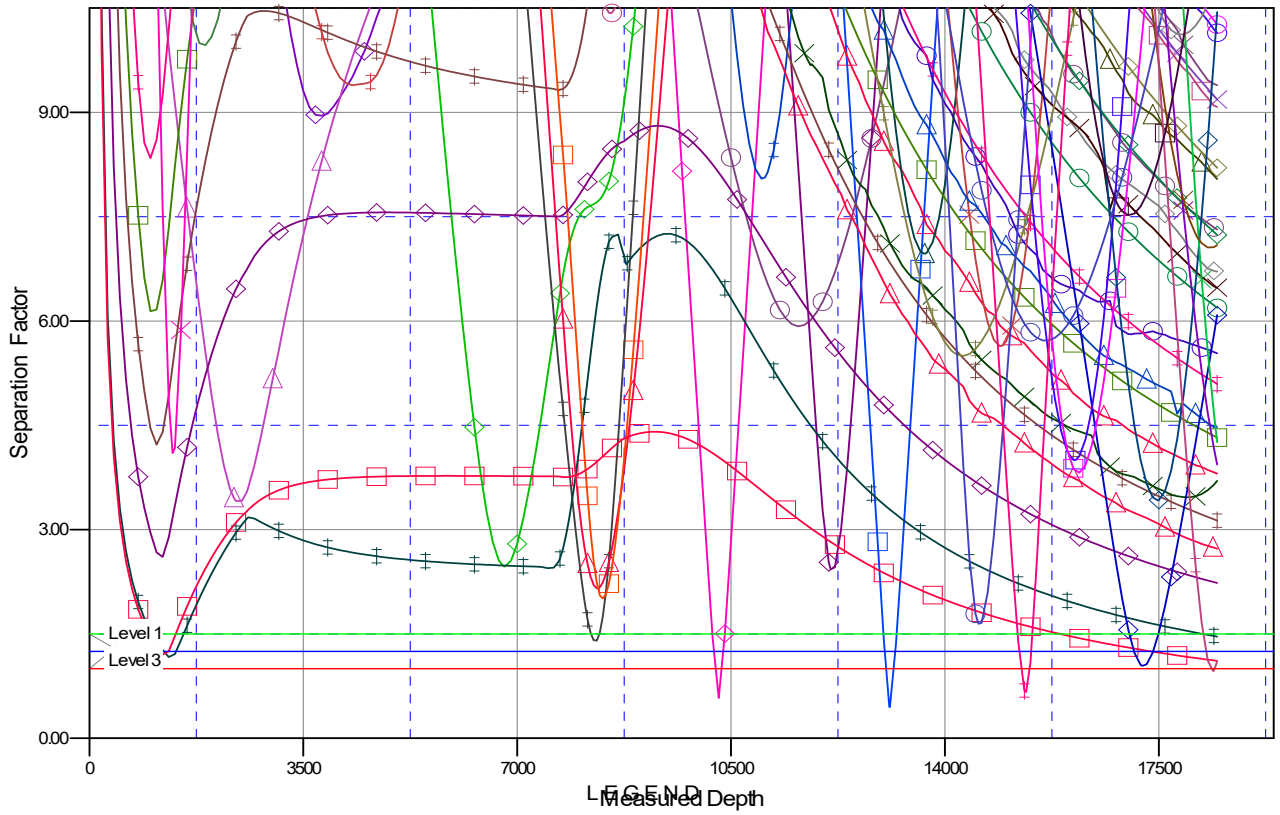
Reference Depths are relative to KB 25' @ 5208.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1B-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°



Company:	CRESTONE PEAK RESOURCES	**Local Co-ordinate Reference:**	Well COSSLETT EAST 1B-22H-H168
Project:	WELD COUNTY	**TVD Reference:**	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	**MD Reference:**	KB 25' @ 5208.00usft
Site Error:	0.00 usft	**North Reference:**	True
Reference Well:	COSSLETT EAST 1B-22H-H168	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB 25' @ 5208.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1B-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°

Separation Factor Plot